

Reference Desk



BARNARD COLLEGE

1993-94 CATALOGUE

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BARNARD COLLEGE

THE LIBERAL ARTS COLLEGE FOR WOMEN
AFFILIATED WITH COLUMBIA UNIVERSITY

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COLLEGE CALENDAR 1993-94

AUTUMN TERM — ONE HUNDRED AND FIFTH YEAR

First-year and transfer student registration	Sept. 1, 2 (W, Th)
Language Placement Examinations	Sept. 3 (F)
Upperclass registration	Sept. 3, 7, 8 (F, Tu, W)
Classes begin 9 a.m.	Sept. 7 (Tu)
Last day to submit work for courses in which grades of I were given in the Spring Term 1993	Sept. 7 (Tu)
Deferred examinations for students absent from May 1993 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Sept. 10, 13 (F, M)
Program filing. Last day to file Autumn Term programs 5 p.m.	Sept. 17 (F)
Last day to add a course	Sept. 17 (F)
Last day to file diploma name cards for the degree in February 1994	Oct. 7 (Th)
Awarding of October degrees	Oct. 20 (W)
Midterm Date	Oct. 26 (Tu)
Academic holiday	Nov. 1 (M)
Election Day holiday	Nov. 2 (Tu)
Major examinations for February graduates	Nov. 10-12 (W-F)
Required meetings for planning programs	Nov. 11 (Th)
Program planning and sign-up period for all students	Nov. 11-Dec. 2 (Th-Th)
Last day to drop a course	Nov. 18 (Th)
Last day to file requests for pass/fail grades	Nov. 18 (Th)
Thanksgiving holidays	Nov. 25-28 (Th-Sun)
Last day for first-year students and first-semester sophomores to file tentative Spring Term programs with the Registrar	Dec. 2 (Th)
Optional reading day	Dec. 13 (M)
Required reading day	Dec. 14 (Tu)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due.	Dec. 14 (Tu)
Last day for payment of bill for Spring Term	Dec. 15 (W)
Midyear Examinations Begin	Dec. 16 (Th)
Autumn Term ends	Dec. 23 (Th)
Winter recess	Dec. 24-Jan. 16, 1994 (Fri-Sun)

SPRING TERM — ONE HUNDRED AND FIFTH YEAR

Deferred examinations for students absent from December 1993 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Jan. 13, 14 (Th, F)
Registration	Jan. 14, 18, 19 (F, Tu, W)
Last day to submit to the Registrar work from Autumn Term 1993 for removal of I	Jan. 14 (F)
Language Placement Examinations	Jan. 14 (F)
Martin Luther King Day holiday	Jan. 17 (M)
Classes begin 9 a.m.	Jan. 18 (Tu)
Program filing. Last day to file Spring Term programs 5 p.m.	Jan. 28 (F)
Last day to add a course	Jan. 28 (F)
Last day to file diploma name cards for the degree in May 1994 or October 1994	Feb. 4 (F)
Awarding of February degrees	Feb. 9 (W)
Last day to submit 1994-95 Senior Scholar applications	Feb. 24 (Th)
Midterm Date	Mar. 10 (Th)
Spring holidays	Mar. 12-20 (Sat-Sun)
Last day to drop a course	Mar. 24 (Th)
Last day to file requests for pass/fail grades	Mar. 24 (Th)
Major examinations for May and October graduates	Mar. 30-April 1 (W-F)
Required meetings for planning programs	April 7 (Th)
Program-planning and sign-up period for all students	April 7-28 (Th-F)
Last day to file application for 1994-95 financial aid	April 15 (Wed)
Last day for sophomores to declare major choices	April 15 (Wed)
Last day to withdraw from a course	April 28 (Th)
Phi Beta Kappa-Honors Convocation	April 28 (Th)
Last day for first-year students to file tentative Autumn Term programs with the Registrar	April 28 (Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due	May 2 (M)
Required reading period	May 3-5 (Tu-Th)
Final Examinations Begin	May 6 (F)
Spring Term ends	May 13 (F)
Baccalaureate Service	May 15 (Sun)
Presentation of Barnard Degree Candidates	May 17 (Tu)
Conferring of Degrees	May 18 (W)
Last day to file application for deferred examinations in Barnard courses	May 20 (F)
Last day to submit to the Registrar work from Spring Term 1994 for removal of I	June 7 (Tu)
Classes begin 9 a.m.	Sept. 6 (Tu)

CALENDAR

1993

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THE COLLEGE

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to its hometown of New York City. Barnard is committed to the liberal arts and sciences—a commitment reflected in its curriculum and in the atmosphere of learning and scholarship that permeates its campus.

As a university college in an international city, Barnard offers an education enriched immeasurably by the vast social and cultural resources of New York and the intellectual resources of Columbia, located just across the street.

More than sixty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed: "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is itself a liberal education." Today the city remains an extension of the campus, used by every department to enhance the relationships of learning to living.

The College seeks women who will benefit most from the Barnard experience: diverse, motivated and curious young women who will draw from its deep well of opportunity and contribute to its stimulating community.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late 19th-century crusade to make higher education available to young women.

The College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that women share in the opportunity for higher education at Columbia. The idea, initially ignored, led to the creation of a "Collegiate Course for Women." Under the plan, highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was soon abandoned and six years later Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter was secured and Barnard College named in honor of its most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue. Fourteen students enrolled in the School of Arts and twenty-two "specials," lacking the entrance requirements in Greek, enrolled in science. There was a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights. In 1890 Barnard was included in the educational system of Columbia University with provisions unique among women's colleges: it was governed by its own Trustees, Faculty and Dean, and was responsible for its own endowment and facilities, while sharing instruction, the library and the degree of the University.

BARNARD TODAY

From the original fourteen students, enrollment has grown to 2,100, with over 27,000 Barnard students awarded a degree since 1893. Barnard's faculty of 264 men and women are teacher-scholars whose paramount concern is the education of undergraduate students and whose professional achievements bring added vitality to the classroom.

Barnard's liberal education is broad in scope and demanding. The curriculum includes a series of general education requirements—a program of courses the Faculty believes provides a stimulating and thorough education while remaining flexible and varied enough to suit a student's own interests, strengths and talents. Classes vary in size. Those in which

student participation is important are small. There are opportunities for independent work and students may be invited to work on research projects with faculty members.

In 1988 Barnard College and Columbia University amended and extended the long-standing agreement for cooperation between the institutions. Barnard stands as an independent college for women with its own curriculum, faculty, admissions standards, graduation requirements, trustees, endowment and physical plant. At the same time, Barnard and Columbia share resources, thereby giving students open access to the courses, facilities and libraries of both schools. Barnard and Columbia students also share in a variety of extracurricular activities and social lives.

From its inception Barnard's foremost commitment has been to the academic, personal and professional success of women. Students benefit from an atmosphere in which over half of the tenured faculty are women, and women are well-represented in the administration. The college is led by Ellen V. Futter, a 1971 graduate who 13 years ago became one of the youngest college presidents in history. At Barnard, women are given the opportunities and the freedom to lead both in and out of the classroom, to develop the skills that equip them to lead throughout their lives.

Barnard's unique relationship with Columbia—as well as its ties to several of Columbia's graduate schools and its programs with premier New York City institutions including the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America and Teachers College—gives students an unusual range of educational options. Academic organizations within and beyond the University offer vital opportunities for research, study, studio experience, career internships, and community service.

Barnard has a high student retention rate, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, between one-fourth and one-third of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools, law schools, and business schools. The rest obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.

THE CAMPUS

The Barnard campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings, including the College's newest building, Sulzberger Hall, form an enclosed quadrangle.

Barnard Hall is just north of the "Quad" and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor; the reference area, periodicals, microforms, and open book stacks on the second floor; and on the third floor, audiovisual facilities, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center, as well as student mailboxes, music practice rooms, a bowling alley, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

In the immediate neighborhood, Barnard maintains additional residence halls, including Plimpton Hall, Elliott Hall, and 600, 616, and 620 West 116th Street, all apartment buildings. The College also rents additional spaces at 601 West 110th Street.

Columbia University is directly across Broadway.

WOLLMAN LIBRARY AND OTHER LIBRARY RESOURCES

The Wollman Library occupies the first three floors of Adele Lehman Hall. The main collection of more than 160,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A wide selection of periodicals and journals supplements the book collection. The reading areas contain individual study carrels. The first floor houses a collection of material used in current courses.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the resource collection of the Barnard Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

When the College is in session the main library is open seven days a week providing a full range of services. The Reference Department offers an instruction program to help each student develop efficient library skills. In addition to the standard printed research materials, the library provides many electronic information sources. Ten workstations support computerized periodical indexes and electronic texts such as NEXIS and the CD-ROM *Oxford English Dictionary*. All recently acquired items in the library collection are included in Columbia University's on-line catalog.

Barnard students also have access to all Columbia University libraries with over 6 million books, 3.5 million microforms, and over 58,000 serial and periodical listings, and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

Barnard students may use a Kurzweil Reader available through the Columbia University Library.

THE ACADEMIC COMPUTING CENTER

The Academic Computing Center (ACC) provides computing resources to all Barnard students. The ACC maintains and operates three computer laboratories. The main lab, located at 112 Lehman Hall, houses IBM and Macintosh computers as well as laser and dot-matrix printers. Student consultants are available at the Lehman lab to assist students with any questions or problems they may have. Additional facilities are located in the Sulzberger and Brooks residence halls. All computers located in ACC labs connect the Barnard computer network to CLIO (on-line library information) and all Columbia instructional computers. There are currently seventy-five public access computers on campus.

Academic computing also offers workshops throughout the academic year. Topics include word processing, spreadsheet, database and graphics software, and an introduction to computers session.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women, located in 101 Barnard Hall, was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today, the center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public.

Through a wide range of programs, conferences, lectures, and seminars, the Center generates and publicizes advanced research in feminist scholarship, and attracts to Barnard outstanding women in public life.

The series *Speaking of Women...* each week brings Barnard faculty, outside scholars, and activists to the Center for informal discussions on a wide range of women's issues. The Reid Lectureship features a series of talks and seminars by distinguished women in public life and the arts who have shown a significant commitment to improving the lives of all women. The Scholar and the Feminist, a day-long, semi-annual conference, addresses the conjuncture of feminist scholarship and activism in women's issues. To provide the results of the research and experience presented in the Center's conferences and lectures, the Center publishes *The Barnard Occasional Papers on Women's Issues*.

The Center's collection and reading room are an important resource for members of the Barnard community and for the general public. Students regularly use the Center as a meeting place, as do faculty and staff.

The collection contains thousands of books concerning women and gender, and subscribes to over one hundred feminist periodicals. Collections of published articles; unpublished articles; newspaper clippings; special newsletters and reports; information on local, national, and international women's organizations; and materials about women's studies programs throughout the country round out the collection.

STUDENT LIFE

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents of nearly every state and some fifty foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be made safely about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life. Nine out of ten students live in college housing and participate in the educational programs, cultural events and social activities of their residence halls.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College committees, on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 80 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and yearbook and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events.

Student activities emanate from McIntosh Student Center which houses the offices of College Activities, Student Life, the Student Government Association and other clubs and organizations. The Center also includes the student mail room, a snack bar, the commuter lounge, music practice rooms, darkroom, computer publications room, pottery studio, bowling alley, radio station, and the student store. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, opera and sports in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lectures and performances during the school year.

In the residence halls, student Hall Councils elected by the residents, plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community and guests.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all Barnard students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities for students, faculty, and staff to experience together the cultural, political, and social life of the city.

SPORTS AND ATHLETICS

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors eleven women's varsity teams including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming and Diving, Tennis, Indoor and Outdoor Track and Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the undergraduate divisions of Columbia University have the opportunity to

compete on all university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition.

For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals, recreation, and club sports. The program features basketball, bowling, indoor soccer, volleyball, open gym time, recreational swimming, sports clubs, open weight room hours, and special events.

Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis clubhouse, facilities for crew, and a spacious field house.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members, advised by the Dean of Studies. The Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses and acts on appeals of academic disciplinary sanctions determined by the Honor Board. Hall Councils comprising students recommend disciplinary action for violation of residence hall rules. A more complete explanation of the system may be found in the *College Calendar and Student Handbook*.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the appropriate administrators, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *College Calendar and Student Handbook*.

Enrollment in the College, award of academic credit, and conferral of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College committees.

STUDENT LIFE

RESIDENTIAL LIFE

Barnard maintains a diversified residence program. Residence options include traditional residence halls, a variety of suite arrangements, and apartments in College-owned buildings on or adjacent to the campus. In a cooperative exchange with Columbia College and the School of Engineering and Applied Sciences, some 200 spaces are available for those who choose coeducational arrangements. In addition, some students live in independent housing they secure in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in campus housing. In all, about 90% of the student body live in College housing, the rest choosing to live off campus. Policies regarding eligibility for housing and manner of assignments are formulated by the College Housing Committee, with a membership of students, faculty, and administrators.

FACILITIES

The College provides in its residence halls supervision under the direction of the Dean of Student Life. This includes directors, graduate and undergraduate student assistants, twenty-four-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Sulzberger Halls, or the "Quad," at the south end of the campus, are operated as a single complex with space for about 930 students. Sulzberger Hall, opened in 1988, completed this residential complex and provides community amenities as well, including computer rooms and a cafe. Reid Hall and the first eight floors of Sulzberger Hall are all-female buildings housing first-year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass traditional residence halls. There are also eight wheelchair-accessible, modified rooms located in Hewitt. The "Tower," floors nine through 16 of Sulzberger Hall, houses seniors and juniors in suites with lounges and kitchenettes.

"616" West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and bath.

"600" and "620" West 116th Street are College-owned buildings comprising student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.

Elliott Hall, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

Plimpton Hall, an apartment-style residence hall on Amsterdam Avenue and West 121st Street, a short walk from the main campus, but adjacent to Columbia and Teachers College, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

ELIGIBILITY

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies and the Dean of Student Life.
2. A student receives "Resident" classification if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.

3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for campus housing when they enter as first-year students. Rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.

ASSIGNMENTS

Returning upper-class resident students are assigned rooms in College residences on the basis of a lottery and room selection. Rules about eligibility for and priority in the lottery are determined by the Housing Committee. Incoming first-year students, readmitted upperclass students, and transfer students are assigned rooms by the Housing Office.

REQUIREMENTS

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing,” which is given to students selecting College housing and which must be signed by them before they may accept an assignment.

BOARD

The College offers all students meal plans, which include points that may be used in the recently renovated Hewitt cafeteria, McIntosh snack bar and Quad cafe. Meal plans (not points) may also be used at Columbia’s John Jay cafeteria. All first-year students and most residents of Brooks and Hewitt are required to be on a meal plan for the full academic year.

MARRIED STUDENTS

Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of a commuter.

ADMISSION

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and standardized test scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from all geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or disability.

FIRST-YEAR APPLICATION PROCEDURES

Students are admitted to the first-year class in September and, in limited numbers, in January. They must be at least 15 years of age.

Application for admission to the first-year class should be made by January 15 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions. Barnard accepts the Common Application in lieu of its own form and gives equal consideration to both. Students may obtain copies of the Common Application from their high schools.

A nonrefundable fee of \$45 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

SECONDARY SCHOOL PREPARATION

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

FIRST-YEAR ENTRANCE TESTS

Barnard requires all candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests (ACH), one of which must be in English composition or literature. The ACT can be substituted for the SAT and Achievement Tests. We recommend that students take these standardized tests by the fall of their senior year. As early as possible, candidates should write directly to the College Board, Box 592, Princeton, NJ 08450 or the American College Testing Program, Box 168, Iowa City, IA 52240 for the Bulletin of Information containing descriptions of the tests, directions for filing applications, the dates on which examinations are administered, and a list of examination cen-

ters. Dates vary from year to year and applications to take the test must be received by the CB and ACT well in advance of the test. Students who require nonstandard administration of the tests should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board or American College Testing Program to send official test scores to the Office of Admissions. The CB code number for Barnard is 2038. The ACT code number for Barnard is 2718.

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

INTERVIEWS

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions. Appointments are scheduled Monday through Friday from 9:30 A.M. to 12:00 P.M. and from 1:00 to 4:00 P.M., and on Saturday morning. Applicants who are unable to visit the college may request an interview with a local Barnard Alumnae Admissions Representative (BAAR) by returning the Alumna Interview Request Card that is included with the application.

EARLY DECISION

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the **Fall Early Decision Plan**, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the **Winter Early Decision Plan**, a candidate should submit a completed application, with all supporting credentials, by January 2 for notification of the Committee's decision no later than February 2. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the first-year class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward tuition and fees for the first year.

The same criteria are used in the evaluation of applicants under both the Autumn and Winter Early Decision Plans. The Committee on Admissions may choose to postpone a decision on an EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

ADMISSION

The Program is limited to 15 students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a first-year student to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, standardized test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests. For further information about the Centennial Scholars Program, see page 38.

DEFERRED ENROLLMENT

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan can not defer their admission.

INTERNATIONAL STUDENTS

Barnard welcomes applications from international students. These students are expected to follow the same application procedure and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests, or the ACT.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Text. Arrangements for it should be made through the United States Consulate. After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

TRANSFER STUDENTS

Barnard welcomes transfer students in the sophomore and junior classes of each year. Applications for admission in September will be reviewed according to the following schedule:

Deadline	Notification
March 1	April 15
April 1	May 15
May 1	June 15

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or ACT, and, if appropriate, the TOEFL, the official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked. Three recommendations are also required: one each

from the high school counselor, a college faculty member and a college dean or adviser.

A strong record of at least one year's work at an accredited college, university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 26.

VISITING STUDENTS

Qualified students who are degree candidates at other colleges may apply for admission as visiting students for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

READMISSION

Barnard students who have not been registered for one or two terms may request readmission by writing the Dean of Studies by November 15 for the Spring Term and by April 1 for the Autumn Term. Students who left the College in good standing are normally granted readmission. A non-refundable fee of \$100 must accompany each application for readmission.

RESUMED EDUCATION PROGRAM

Former Barnard students who wish to return to the College after an absence of five years or more to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Assistant Dean for Resumed Education Students in the Office of the Dean of Studies.

ADMISSION WITH ADVANCED PLACEMENT

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement (AP) scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	Exemption from ARH BC 1001
Biological Sciences	4 or 5	3 pts.	(4.5 pts. with review of lab notes) and exemption from BIO BC 1001
Chemistry	4 or 5	3 pts.	Exemption from Quantitative Reasoning (5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption from CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or 1002
English	4 or 5	3 pts.	Exemption
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption

ADMISSION

History	5	6 pts.	
	4	3 pts.	
Mathematics			
Calculus AB	4	3 pts.	Exemption from Quantitative Reasoning and placement in IIA. If student takes and passes the placement test for IIS, she will receive 4 pts. of AP credit and may continue in IIS.
Calculus AB	5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS.
Calculus BC	4 or 5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS. Students may not begin with IIA. If a student takes IIA, rather than IIS, she will receive only 3 pts. AP credit.
Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	Exemption from Quantitative Reasoning (4 pts. with review of lab notes) and one term of two-term physics sequence
Political Science	4 or 5	3 pts.	No credit toward the major.
Psychology	4 or 5	3 pts.	Exemption from PSY BC 1001.

No credit will be granted for a college course equivalent to the AP course for which AP credit has been awarded.

OTHER DEGREE CREDIT

Students who have satisfactorily completed college courses before the freshman year at Barnard may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of the aforementioned Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree.

FINANCIAL INFORMATION

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF ANNUAL TUITION AND FEES

The following tuition and fees are required from all students for the Academic Year 1993-94 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$17,088
Partial program (1-11 1/2 points)	570 (<i>per point</i>)
Excess program (over 18 points)	570 (<i>per point</i>)
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	
Comprehensive Fee	668
<i>(includes Student Health Service Charges and Student Activity Charges)</i>	

The following fees are required from all students occupying college housing facilities for the Academic Year 1993-94.

Residence charges

Brooks, Hewitt, Reid and Sulzberger Hall ring floors (*board required— see below*)

All college housing

Single occupancy \$5,116

Multiple occupancy 4,558

Board charges — Required of all those living in Reid and Sulzberger Hall ring floors and of most living in Brooks and Hewitt:

19 Plus Plan—19 meals per week (25 pts.)—minimum requirement for all first-year students in Barnard housing	3,178
14 Plus Plan—14 meals per week (85 pts.)	2,852
10 Plus Plan—10 meals per week (55 pts.)	2,632
7 Plus Plan—7 meals per week (110 pts.)	2,632

A drop or change of meal plan will not be accepted after the second Friday of each semester. A \$50 fee will be assessed for dropping or changing any current meal plan after the beginning and before the second Friday of the semester.

Other fees — Required if applicable

Readmission fee	100
Registration in absentia (per semester)	200
Physical education—part-time students (per course)	570
Orientation fee—all first-year and transfers entering in the	
Autumn Term	150
Spring Term	50

FINANCIAL INFORMATION

Overseas Program fee (<i>Reid Hall, Barnard Option, Kyoto Program</i>)	\$75
Senior fee—all graduating seniors	100
Course fee (<i>per semester</i>)	
French	10
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees (<i>per laboratory course</i>)	
Biological Sciences	40
Chemistry—General	28
Chemistry—Other	35
Bio-Chemistry	45
Computer Lab (<i>per semester</i>)	25
Environmental Science	30
Physics	25
Psychology	20
Study Leave fee (<i>per semester</i>)	200
Summer Credit Processing fee (<i>except CU summer session</i>)	50

PAYMENT OF CHARGES AND FEES

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 2. The Spring Term tuition is due December 15. Payments received after these dates are subject to a late processing fee of \$75. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 2 or December 15, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees.

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College and should be made out for the exact amount of the payment due. A fee will be assessed for checks returned unpaid.

DEPOSITS

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable tuition deposit of \$200 on or before May 10. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College. New students also requesting college housing must submit a non-refundable housing deposit of \$200 by May 10.

All returning resident students must pay a \$200 housing deposit in person or by proxy prior to the spring housing lottery during the time period designated by the Housing Office. Students who are not eligible to participate in the spring housing lottery but wish to live in college housing must submit a \$200 housing deposit with their waitlist application for college housing to the Housing office. Housing deposit credits will be given as follows: full credit if a room is not selected in the spring housing lottery; credit of \$100 if a room is selected in the spring housing lottery or assigned by the Housing office but canceled in writing by July 1. No credit is given if a room is selected in the spring housing lottery or assigned by the Housing office and canceled after July 1, except that a student who files an approved study leave form for the Autumn or Spring term and cancels her housing assignment immediately upon such approval will receive credit for her deposit.

DEFERRED PAYMENT

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in finance programs offered by Chemical Bank, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services, Inc. Information can be obtained from the Bursar.

ADJUSTMENT OF TUITION FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 17 (last day of program filing) in the Autumn Term and by January 28 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

CREDITS FOR WITHDRAWAL

If a student withdraws during the College year, both the tuition deposit and the housing deposit are subject to forfeit. Withdrawal credits will be calculated from the last day of attendance. However, charges will be assessed by the College for housing and dining services used after the official date of withdrawal.

Credit percentages (withdrawal during the week of the term):

1st week	90%
2nd week	80
3rd week	80
4th week	70
5th week	60
6th week	60
7th week	50
8th week	40
9th week	40
After the 9th week	0

Items not subject to the credit calculation include:

- Lab fees
- Related course fees
- Medical insurance
- Academic computer fees
- Orientation fees
- Late payment or processing fees

FINANCIAL INFORMATION

- Dorm use fines
- Finance charges
- Non-refundable deposits to ensure matriculation or housing space.

Students will not be eligible for a refund until all Title IV funds, and other Scholarships, as required, are reimbursed, and any outstanding balances with the College are cleared.

In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80% of housing charges during the first two weeks of classes. Thereafter, the entire amount for the semester will be forfeited.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks. To cover immediate expenses, a student should have traveler's checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

FINANCIAL AID

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or disability.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following Federal programs: the Federal Pell Grant program, the Federal Supplemental Educational Opportunity Grant program, the National Science Scholars Program, the Federal Perkins Loan program, the Federal Stafford Student Loan program, the Federal Parents Loan for Undergraduate Students program, Federal Supplemental Loans to Students, and the Federal College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above-mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks, insurance companies, and the SHARE loan program.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

ACADEMIC ADVISING

Academic advising is coordinated by the Dean of Studies, who oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 31) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions on the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard faculty.

CLASS DEANS AND ADVISERS

After being notified of acceptance to the College, each entering first-year student will receive a program form and the program guide from the Office of the Dean of Studies. The student selects courses for the Autumn Term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with the help of a committee of upperclass students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation and program-planning periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Registrar reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn Term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

TRANSFER ADVISERS

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

INTERNATIONAL STUDENT ADVISER

Advice on situations arising from international student status is available in the Office of the Dean of Studies from the dean designated to counsel international students.

ACADEMIC ADVISING

OTHER COLLEGE DEGREE CANDIDATES

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program-filing and registration are guided by a dean in the Office of the Dean of Studies.

STUDY LEAVES

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional assistant maintains recommendation files and forwards materials required for applications. (See page 30.)

GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the assistant for graduate school recommendations in the Office of the Dean of Studies.

HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public-speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

RESUMED EDUCATION

For advice on academic study and college services for students returning to Barnard after absences of five years or more to complete the A.B. degree, or for graduates redirecting their careers and exploring new interests, the appropriate dean in the Office of the Dean of Studies may be consulted.

STUDENT SERVICES

OFFICE OF CAREER SERVICES

The Office of Career Services helps students and alumnae explore, define and implement career plans. To provide this service the office has developed programs enabling Barnard women to gain work experience and to become informed about different career opportunities. Both students and alumnae are seen for individual career counseling, and group workshops are given on careers and related concerns. The Career Services Internship Program provides semester and summer offerings useful for students to clarify their vocational interests through valuable and often professional-level experience. A newsletter informs students about career programs, workshops, internships and special opportunities.

To aid students and alumnae in exploring career areas the Office maintains a Contact File, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and interviewing skills, are conducted when the College is in session. Students and alumnae may establish permanent recommendation files in the office for future employment.

The Office of Career Services, which is open twelve months a year, has contacts with many potential employers who post full- and part-time jobs. The Federal College Work Study Program is also administered by this office. Students use part-time and temporary job listings for both on- and off-campus jobs. *The Jobseekers Newsletter*, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who request it. During the spring semester, seniors are interviewed on campus by corporate and large nonprofit organizations offering entry-level professional opportunities through the Recruitment Program.

The Barnard Babysitting Service, Barnard Bartending Service, and the Barnard Student Store are student-run services supervised by the office. They provide excellent managerial experience and create jobs for many students.

PROGRAM FOR STUDENTS WITH DISABILITIES

In 1978, Barnard established a program to provide services for students with disabilities which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions, learning disabilities, and psychiatric/emotional disabilities. The ODS works with other administrators and members of the faculty to assist students with disabilities in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities* and a services brochure *What ODS Can Do for You*. The 504 Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College. The Barnard LD Network offers outreach, peer support, and referral to students with learning disabilities; the BAID Network (Barnard Alumnae Involved with Disabilities) provides students with access to disabled alumnae in a broad range of careers.

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

STUDENT HEALTH SERVICES

Student Health Services provides primary health care and specialty consultation for all registered Barnard students. They also support a variety of peer education programs and other activities related to women's health, wellness, and other significant health issues. The medical staff consists of full-time and part-time physicians, a part-time gynecologist,

STUDENT SERVICES

and nurses experienced in college health and women's health care practice. The Mental Health Service, headed by a part-time psychiatrist, is staffed by psychiatrists and clinical psychologists. Advanced trainees in a number of clinical disciplines work at Barnard on a yearly basis. Entering students must submit medical history and physical forms, which become the basis of the medical chart.

Both the Health Services and the Mental Health Services are available to all Barnard students and are covered by the Comprehensive Fee. The Barnard Health Services close during college vacations and holidays, when Barnard students may use the Columbia University Health Services. A physician is on call nights and weekends when the College is in session for after-hours emergencies.

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

1) hospitalization for illness or accident; 2) laboratory tests and x-rays; 3) consultations. The following services are **not** covered: 1) home visits; 2) consultations when the College is not in session; 3) dental care (except for treatment of injury to sound natural teeth); 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult *Barnard Health Service*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Services.

RESIDENT ASSISTANTS

As part of the student support network, upperclass students in each residence hall are designated as **Resident Assistants** to be a campus resource for resident students, to provide liaison with and referrals to other services, and to aid in residential programming.

SERVICES FOR COMMUTERS

The Office of Student Life provides information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations, and supports educational, cultural, and social programs designed to enrich commuter life. The Skip-Stop Express is the student-run organization sponsoring events and support services for commuters. It has an office in McIntosh Student Center across from the Commuter Lounge.

RECOMMENDATIONS

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

STUDENT RECORDS AND INFORMATION

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *College Calendar and Student Handbook*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name, class, home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

THE CURRICULUM

REQUIREMENTS FOR THE A.B. DEGREE

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. All students must complete a major and must fulfill general education requirements.

MAJOR REQUIREMENTS

All students must complete the requirements of an approved major. The number of required courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six semester-courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

GENERAL EDUCATION REQUIREMENTS

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements follow.

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of First-Year Seminars, with descriptions and the names of instructors, begins on page #. Transfers are not required to take the First-Year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (First-Year English), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course with an Advanced Placement (AP) test score of 4 or 5.

THE CURRICULUM

International students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester, or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V1201 and V1202 or their equivalents must be completed.) The faculty recommends that in general (i) the intermediate year be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required, whenever feasible, for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. A sequence that includes Italian V1301, V1302, and a year of literature will qualify.
2. Completion of Spanish BC 1208x for Spanish-speaking students (taken only with the instructor's permission) will qualify on recommendation of the instructor.
3. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.
4. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, or they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is not English (e.g., French, for alumnae of the Lycée Français).
5. For international students for whom English was not the primary language of instruction in high school, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of 650-749, fourth semester; 550-649, third semester; 400-549, second semester; below 400, first semester.
2. For transfer students: the course following the level of the last satisfactorily completed semester course; however, formal withdrawal and reenrollment in a more suitable course may be required for students who are judged by the department to be inappropriately placed and in need of additional preparation or review. In such a case, transfer credit for the previous course is rescinded to allow the student to receive credit for the Barnard/Columbia course of equivalent level.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

- 1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
- 2. No prior assurance of degree credit is given for summer or transfer work in foreign language courses. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
- 3. No credit is granted for work equivalent to a level already completed and credited.
- 4. Credit for the first semester of an elementary language is not normally granted unless a more advanced course is completed. However, a student is granted only **one** exception to this rule on written request to the Registrar.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory, in the same field. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	AST V 1753-1754 or AST C 1403-1404, both with the lab AST C 1903-1904
Biology	BC 1001-1002, 2001, 2002, 2003, 2004
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, or BC 3338.
Environmental Science	BC 1001, BC 1002, GEY V 1001, 1011-1012, GEY S 1021D-1022Q (CU Summer)
Physics	BC 1206-1208, V 1003-1004, C 1021-1022, F 1003-1004, V 1103-1104, V 1305-1306, W 1003-1004
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with the appropriate department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard *before registering for any of the courses listed below that satisfy the Quantitative Reasoning Requirement*. Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

THE CURRICULUM

In order to graduate students must pass one of the courses listed below in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed below or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

Astronomy	V 1753, V1754, C 1403-1404
Biology	BC 3386
Chemistry	BC 1601, C 1403, C 1404
Computer Science	Any course carrying degree credit <i>except</i> W 1001 CU Summer S1021D, S1022Q.
Economics	BC 2411
Environmental Science	BC 3015 and BC 3016 (Both courses must be taken.)
Mathematics	Any course carrying degree credit.
Philosophy	V 3411, V 3415 (F 3410 does not fulfill the requirement.)
Physics	Any course carrying degree credit
Political Science	BC 3345
Psychology	BC 1101
Quantitative Reasoning	All courses carrying degree credit <i>except</i> BC 1001
Sociology	V 3212
Statistics	Any course carrying degree credit

DISTRIBUTION

Note: It is possible to satisfy both Part A and Part B of the distribution requirement with the same courses, but all students must take two courses in the Humanities and two in the Social Sciences.

Part A:

Students must complete four one-semester courses outside the major, two in the Humanities and two in the Social Sciences. In each of these areas, only one of the two courses may be interdisciplinary.

The distribution requirement in the Humanities may be fulfilled by courses in Art History, Philosophy, Religion, Medieval and Renaissance Studies, any literature, the history or literature of music, the history of dance or theatre, Humanities C 1001 or C 1002, and by designated courses in Asian and Middle Eastern Cultures or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by courses in History, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology, Contemporary Civilization C 1101 or C 1102, and by designated courses in Asian and Middle Eastern Cultures, Urban Affairs, or Women's Studies.

Part B (effective beginning 1993-94 for the first-year class):

Students must complete four one-semester courses chosen from the three categories listed below, with no more than two courses from any one category.

- I. Comparative Studies of Culture and Society
- II. Societies and Cultures of Asia, the Pacific, Africa, or the Middle East
- III. Societies and Cultures of Europe or the Americas

Courses taken for Distribution - Part B may also qualify to fulfill Distribution - Part A.

Courses that qualify for the major or a minor may also qualify for Distribution - Part B.

Courses satisfying Part A are identified in this catalogue by the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. Courses satisfying Part B are identified by the Roman numeral I, II, or III (corresponding to one of the three categories listed above) on the last line of the course description. When a course satisfies both Part A and Part B, its description will be accompanied by both the letter H or S and the Roman numeral I, II, or III.

ELECTIVES

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. Of these, a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history. A maximum of six courses in instrumental instruction may be credited, and a student who takes more than two is required to validate the third and the fourth courses of music lessons with a course in music theory, history, or literature. See page 182.

One-point dance technique courses taken by non-dance majors for credit are also included in the existing 18-point maximum which may be credited toward the degree; a maximum of six courses in dance technique may be credited; a student who takes more than two one-point dance technique courses for credit is required to validate the third and fourth credit-bearing dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

PHYSICAL EDUCATION

Students may elect to enroll in Physical Education courses for academic credit. No more than two points of Physical Education may be credited toward the degree. Physical Education courses are graded pass-fail based on attendance and participation.

THE CURRICULUM

LENGTH OF RESIDENCE

Students with no transfer credit are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in absentia, with the permission of the Committee on Programs and Academic Standing.

REQUIREMENTS FOR TRANSFER STUDENTS

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least 60 points, including at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 32). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

TRANSFER CREDIT

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar, who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not normally credited unless or until the second term or a more advanced course has been satisfactorily completed, but a student may request a single exception to this ruling.

Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 40).

First-year students with a record of prior course work taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Such work will be evaluated after the student has completed 12 points at Barnard. Grades for this course work are included in the overall average.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Matriculated	Points completed
First-year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more

Unclassified transfer students who have not yet been assigned credit

Non-matriculated:

Other college degree candidates

Barnard alumnae auditing courses

Barnard alumnae taking courses for credit

Any other student who is not a degree candidate

A degree candidate (i.e., a student who is matriculated) may not change her status to non-matriculated.

FILING OF DIPLOMA NAME CARDS

The Diploma Name Card, available in the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and February. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar). Graduation ceremonies are held in February and May.

OTHER ACADEMIC OPPORTUNITIES

MINOR

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 34).

To qualify for the minor, a course must be letter-graded A-C.

SENIOR SCHOLAR PROGRAM

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as Senior Scholar on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean in the Office of the Dean of Studies, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. Her written application for the Senior Scholar Program is submitted to the Committee on Honors for approval. The deadline for the application appears in the College Calendar.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the Program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors, chosen in consultation with the Program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year students and sophomores who distinguish themselves during their first terms at the College.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC1889, "Working with Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters, and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium, which is devoted to the public presentation of the project in the term of its completion. Dinner lectures, outings to museums, artists' studios, and research laboratories and similar activities are additional features of the Program.

OTHER ACADEMIC OPPORTUNITIES

The Centennial Scholars Program is governed by a committee consisting of the following members:

Leslie Lessinger, Co-Director, *Professor of Chemistry*

Helene Foley, Co-Director, *Professor of Classics*

Philip V. Ammirato, *Professor of Biological Sciences*

Dorothy Denburg, Academic Adviser to Centennial Scholars, *Dean of the College*

Serge Gavronsky, *Professor of French*

Timothy Halpin-Healy, *Assistant Professor of Physics*

Cary Plotkin, *Assistant Professor of English*

Doris Davis, *ex-officio, Director of Admissions*

Ex-officio, Dean of Studies

WRITING FELLOWS PROGRAM

The Writing Fellows Program offers exceptional students with strong writing, reading, and communication skills an opportunity to become peer-tutors in writing. During their first semester in the program, students take a seminar and practicum in the teaching of writing (see page 128: *The Writer's Process*) usually in the Autumn term of their sophomore or junior year. As Writing Fellows, they go on to work in a number of different settings (e.g., The Writing Room, writing-intensive courses across the curriculum) with Barnard undergraduates at all levels and in all disciplines. Writing Fellows receive a stipend and are asked to make a commitment of three semesters to the program.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN MEDICINE OR DENTISTRY

The basic pre-medical and pre-dental requirements are two semesters of introductory biology and one or two semesters of biology laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory: BC 2003 and BC 2004); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (CHE BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of Medical School Admissions Requirements, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for pre-medical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year), at which time students are advised to take the Medical College Admissions Test, normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their advisers as early as possible and should start a file with the pre-professional assistant and consult with the pre-professional dean in the Office of the Dean of Studies by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant

OTHER ACADEMIC OPPORTUNITIES

materials are available in 105 Milbank.

PROGRAM PLANNING FOR PRE-LAW STUDENTS

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Official Guide to U.S. Law Schools*, an annual publication of the Association of American Law Schools. Copies may be consulted in the Office of the Dean of Studies, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-law students are encouraged to make themselves known to the pre-professional advisers in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in March each year and can be picked up in 105 Milbank any time thereafter.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN JOURNALISM, ARCHITECTURE, SOCIAL WORK AND BUSINESS

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies and in the Office of Career Services.

CREDIT FOR SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms. The granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, and is subject to some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student cannot receive degree credit for summer courses exceeding this maximum, she can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may learn in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring Term. Although the application may also be retroactive, the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, a course normally must meet for at least five weeks.

3. Grades for courses taken in summer school must be letter grades in the A to C range; they are not included in the cumulative grade point average. These courses and grades will, however, be considered for admission to graduate or professional schools, which normally require the submission of an applicant's transcripts from all the American and Canadian colleges she attended.

STUDY ABROAD

Several options for study abroad are available to academically qualified Barnard students. The Faculty has set the following guidelines for eligibility. By the time they plan to study abroad, students should:

- be competent in the language of instruction abroad, or, when the language of instruction is English, have some knowledge of the language of the host country;
- have completed all or nearly all of the basic requirements for the degree;
- have no outstanding Incompletes;
- have a good academic record;
- have worked out, in consultation with the major and study abroad advisers, a plan for the completion of all major and college requirements for graduation.

The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit. Interested students should begin the process of applying to study abroad by consulting one of the deans responsible for study abroad advising in the Office of the Dean of Studies during the first semester of the sophomore year. Students must obtain the approval of the study abroad adviser, the class dean, and the major adviser in order to receive the College's permission to study abroad for credit toward the Barnard degree.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), The University of London (University College, London School of Economics, Queen Mary and Westfield College, and King's College), and the University of Warwick. Admission to these colleges is competitive.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program, which offers a varied and attractive curriculum in French language, literature, culture, art history, film studies, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may, through this program, enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, the student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term over 100 students take part in this program. Some are French majors, but most are not. The student body is composed of undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in General Studies, 419 Lewisohn Hall, and in 105 Milbank. Interested students should see the appropriate deans in the Office of the Dean of Studies to discuss their plans and to have the dean review and sign their applications. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar.

OTHER ACADEMIC OPPORTUNITIES

Barnard participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Japan at the **Kyoto Center for Japanese Studies** through its participation with Columbia in a consortium organized by Stanford University and several other institutions.

Course credit for courses taken at institutions abroad, other than the Barnard-Columbia program in Paris, is generally treated as transfer credit (see page 36).

STUDY AT JEWISH THEOLOGICAL SEMINARY

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of the chair of her major department. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 36 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate deans in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each institution.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

STUDY AT THE JUILLIARD SCHOOL

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in dance and music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting the appropriate dean in the Office of the Dean of Studies on their admission to Barnard or as early as possible.

STUDY AT THE MANHATTAN SCHOOL OF MUSIC

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students who pass required auditions have the opportunity to enroll in six semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors in Music may take eight semesters of lessons. Students interested in those options should consult with the chair of the Barnard Music Department.

OTHER ACADEMIC OPPORTUNITIES

SPECIAL ACADEMIC PROGRAMS

Barnard offers a summer academic program for secondary school students, “Summer in New York: Barnard’s Pre-College Program.” Program information and applications are available in the Office of the Director of Special Academic Programs.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, the School of Engineering, the School of Law, and the School of Dental and Oral Surgery. Details on specific programs are given below.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year but, to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the appropriate dean in the Office of the Dean of Studies at Barnard. Qualified students nominated by the Dean of Studies complete the application, which is sent to the School of International and Public Affairs. The nominees will be interviewed by an admissions officer at SIPA. The final decision on admission to the program rests with the SIPA Review Committee. Only four students will be admitted. Acceptance for the joint program is a provisional admission to SIPA for the M.I.A. degree. All provisionally admitted students will be required to submit a formal application to SIPA in the spring semester of the senior year. Formal applications for fellowship consideration are due by January 15; otherwise, applications are due by April 15.

A Barnard student’s eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and a strong background in quantitative courses.

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core “A” Requirement. A typical program would include most of the 12 points of course work at the 4000 level or above in the following areas:

- International politics
- Foreign historical and political processes
- International law

OTHER ACADEMIC OPPORTUNITIES

- United States foreign policy
- International policy analysis and management
- Graduate-level economics

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

GRADUATE PROGRAM IN PUBLIC POLICY AND ADMINISTRATION

Barnard College and the Columbia University Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the Bachelor of Arts degree at the end of four years and the Master of Public Administration after one additional year.

Application to the program is made directly to the Graduate Program in Public Policy and Administration at the School of International and Public Affairs, but the Dean of Studies and the faculty adviser for this program, Professor Demetrios Caraley, Chair of Political Science (409 Lehman), should be consulted before the application is filed, preferably as early as the sophomore year. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the autumn term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points, including a workshop and policy specialization requirements.

SCHOOL OF LAW

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year with a score in keeping with the median level of accepted applicants to the Columbia Law School in that academic year.

Students interested in the program should consult with the appropriate pre-professional dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December, and February.

SCHOOL OF DENTAL AND ORAL SURGERY

A limited number of qualified students may enter the Columbia University School of

OTHER ACADEMIC OPPORTUNITIES

Dental and Oral Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Dental and Oral Surgery. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Dental and Oral Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the appropriate pre-professional dean in her sophomore year for early program planning. Before her admission to the School of Dental and Oral Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses may be taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs designated by the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

AUDITING

STUDENT AUDITING

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript, are not graded, and may not be subsequently converted to credit courses.

ALUMNAE AUDITING

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

REGISTRATION

REGISTRATION FOR NEW AND CONTINUING STUDENTS

Instructions and materials for registration are enclosed in individual packets distributed to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 23) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the deadline published in the College Calendar. If for some compelling reasons a student must enroll in less than a full-time program, the written permission of her class dean in the Office of the Dean of Studies is required.

REGISTRATION FOR RESUMED EDUCATION STUDENTS

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines.

REGISTRATION FOR COLUMBIA UNIVERSITY COURSES

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are limited in enrollment. Barnard students wishing to register in such courses must take part in the limited-enrollment procedures.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses that are not cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

STUDENT PROGRAMS

PROGRAM FILING

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to attend the appropriate program-planning meeting scheduled before the end of each semester (see College Calendar) and to consider seriously her selection of courses for the following semester.

During the program-planning period each first-year student and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expected to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a final decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is **no refund** issued for courses dropped after the published deadline for program filing, **and any part-time program filed after that date will be assessed full tuition.**

Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

ADJUSTMENT OF FEES AND REFUNDS FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 17 (last day of program filing) in the Autumn Term and by January 28 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

SCHEDULE OF CLASSES AND ROOM ASSIGNMENTS

Class times and room numbers are published in the Schedule of Classes, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

COURSES WITH LIMITED ENROLLMENT

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

ADDING COURSES

Courses may not be added after the deadline for filing academic programs. Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signature on either the program or add form of the class adviser (first-year student or sophomore) or the major adviser (junior or senior).

DROPPING COURSES

Courses may be dropped by submission of an Application to Drop a Course, available at the Office of the Registrar. The form requires the signature of the class adviser (first-year student or sophomore) or the major adviser (junior or senior), and must be returned to

REGISTRATION

the Office of the Registrar before the deadline published in the College Calendar. Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline to drop and by the deadline to withdraw, the course will be recorded on the permanent transcript with the notation W (Withdrawal). Action on any course which ends prior to the above dates must be taken before the last class meeting. No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations. A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

POLICY ON RELIGIOUS HOLIDAYS

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration, deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn Term to all faculty and administrators.

WITHDRAWAL AND READMISSION

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 25.) A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies.

Students withdrawing for medical reasons must be cleared by Student Health Services prior to readmission. Specific procedures and conditions for readmission are determined on a case by case basis and communicated to the student and/or parent or guardian at the time of withdrawal. A student in good health who leaves with her record complete and who is in satisfactory standing is eligible for readmission. She must submit a written confirmation of her intention to return to the Dean of Studies by April 1 for the Autumn Term or November 15 for the Spring Term. A readmission fee of \$100 must accompany each application for readmission.

EXCEPTIONS TO COLLEGE REGULATIONS

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

EXAMINATIONS

LANGUAGE PLACEMENT EXAMINATIONS

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 32). A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credit.

First-Year Students

First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

OTHER DEPARTMENTAL PLACEMENT EXAMINATIONS

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

MAKE-UP EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

FINAL EXAMINATIONS

No class meetings will be held on required reading days as set forth in the College Calendar. The dates for final examinations, given at the end of each term, are published in the College Calendar. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least two weeks in advance of final examinations.

EXAMINATIONS

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour of a three-hour examination, she will be graded on the work she has completed.

DEFERRED FINAL EXAMINATIONS

Deferred final examinations for Barnard courses, given in September and January (see College Calendar), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the instructor and to the Office of the Dean of Studies in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by dates designated in the College Calendar. A payment of a \$10 handling fee for each examination must accompany the application. Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

EXAMINATIONS FOR STUDENTS WITH DISABILITIES

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Director for Disability Services about reasonable accommodations. Students should obtain copies of the Test Accommodations Form in Room 7 Milbank and return them at the beginning of each semester.

SAT, GRE, AND LSAT EXAMINATIONS

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

GRADING AND ACADEMIC HONORS

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from a course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., in physical education. Pass/Fail grades for individual students are subject to regulations described below.

Grades of I or X that were recorded in 1980-81 or before have been changed to NC (no credit) if the missing work was not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard with probationary conditions with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

GRADE REPORTS

The grade report for the Autumn Term is enclosed in the student's registration packet in January. At the end of the Spring Term, a cumulative grade report of all the student's work at Barnard is sent to her home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parent(s) or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$3 per copy will apply (see Transcripts, page 53).

GRADING AND ACADEMIC HONORS

PASS/D/FAIL OPTION

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all the course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202. Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., English BC 1202). The P/D/F option cannot be elected for First-Year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

INCOMPLETES

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "early Incomplete" option requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

ELIGIBILITY FOR STUDENT GOVERNMENT OFFICES

To be a candidate for election to a student government office, a student must be in good academic standing and free of disciplinary action for at least one year.

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Any student at Barnard College, Columbia College, or the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree.

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about eligibility should be referred to the Dean of Studies.

DEAN'S LIST

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms, and complete at least 12 letter-graded points each term with a minimum grade point average of 3.4 for the academic year. (P-graded points are excluded.) Her grade point average will be based on all her letter grades in the A to F range.

TRANSCRIPTS

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$3 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$3 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet the designated requirements. Grades for summer work are excluded from the grade point average.

GRADING AND ACADEMIC HONORS

If the total number of points for summer credit, for courses graded P or P* and for transfer grades that do not have Barnard equivalents, exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Registrar or the Office of the Dean of Studies.

COURSES OF INSTRUCTION

THE CURRICULUM

The Barnard curriculum consists of forty-two departments and programs. At present, twenty-eight departments and ten interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1993-94; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

CLASSES

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 23 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

COURSES OF INSTRUCTION

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chair and the approval of the Committee on Programs and Academic Standing. **The first semester of elementary language, whether taken at Barnard or elsewhere, normally does not receive degree credit unless the second semester is completed. However, a single exception to this rule is allowed on written request to the Registrar.**

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. The aforementioned guidelines regarding hyphens and commas between course numbers for BC courses do not necessarily apply to courses offered by other faculties.

BC – Barnard College

C – Columbia College

F – School of General Studies

G – Graduate School of Arts and Sciences

H – Reid Hall, Paris

R – School of the Arts

V – Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)

W – Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates

AMERICAN STUDIES

418 Lehman Hall

854-2159

This program is supervised by the Committee on American Studies:

Assistant Professor of History: Beth Bailey (Director)

Associate Professor of Anthropology: Nan Rothschild

Professor of Art History: Barbara Novak

Adolph S. & Effie Ochs Professor of English and American Studies: Robert G. O'Meally

Associate Professor of English: William Sharpe

Professor of History: Robert A. McCaughey (Dean of the Faculty)

Professor of History: Rosalind N. Rosenberg

Professor of Political Science: Demetrios Caraley

Associate Professor of Religion: Randall Balmer

Assistant Professor of Religion: Judith Weisenfeld

Associate Professor of Sociology: Jonathan Rieder

Professor of Spanish: Alfred Mac Adam

The American Studies Program offers an interdisciplinary major for students who want to study the society and culture(s) of the United States by focusing on a central subject, theme, or set of questions. In consultation with the program director, each student chooses an adviser from among several departments, and works closely with the program director and her adviser to define a thematic concentration within the major. For example, a student might define her concentration as "Gender and American Culture," or "19th-Century American History and Literature," or "The African-American Experience," or "Culture and Politics," or "Community in American Society." Required courses in American history and literature, as well as the junior colloquium and senior seminar, offer a solid foundation for interdisciplinary study.

Prospective majors must see the program director for more information about structuring concentrations and help in selecting an adviser. The program director can provide examples of possible programs and access to a file of syllabi from American Studies courses in other departments.

REQUIREMENTS FOR THE MAJOR

The American Studies major requires a minimum of 12 courses:

1. Two-semester sequence American History Survey, HIS BC 1051 and 1052. Majors are urged to complete this requirement by the sophomore year. This requirement may be waived for those with scores of 4 (waives one semester) or 5 (waives both semesters) on the Advanced Placement Exam. Those students should substitute two upper level American history courses.
2. One semester of the American Literature sequence (ENG BC 3179, 3180, 3181, 3182).
3. Junior Colloquium: Approaches to American Cultural History, AMS BC 3401 (offered only in Autumn term).
4. Senior Seminar (AMS BC 3703 and 3704). In some cases, a senior seminar sequence in one of the departments may be substituted for AMS BC 3703 and 3704.

5. A set of at least six courses organized around a theme or subject. One of the six courses must be a seminar or colloquium. The program director and adviser must approve both the theme and the set of courses the student selects for the concentration.

No minor is offered in American Studies.

COURSES OF INSTRUCTION

AMERICAN STUDIES-HISTORY

ASH BC 3401x

Approaches to American Cultural History

Colloquium on methodologies of American Studies. With the participation of American Studies faculty from several departments, students will learn about different sources and methods that can be used to study a given subject. Topics will vary. —B. Bailey
4 points. Tu 2:10-4:00

AMS BC 3703x, 3704y

Senior Seminar

Individual research on topic related to major thematic concentration and preparation of senior thesis.—Staff

Enrollment limited to senior majors.

4 points. W 4:10-6:00

AMS BC 3999x, AMS BC 3999y

Independent Research

—Staff

3 or 4 points. Hours to be arranged

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS

Students should consult appropriate department listings for complete information about these courses:

Anthropology

- V 1002 Interpretation of Culture
- V 1007 The Origins of Human Society
- V 3002 Political Anthropology
- V 3011 Living in Society: Social Relations
- V 3038 Ethnicity and Race
- V 3041 Theories of Culture: Past and Present
- V 3070 The Study of Cities: An Archaeological Perspective
- V 3100 Anthropology of Urban Life
- V 3128 Microbes, Magic, and Medicine
- V 3712 Lines That Divide: Race, Class, Gender and Ethnicity in Contemporary America
- V 3713 Ties That Bind: Institutions and Communities in Contemporary America
- BC 3868 Ethnographic Field Research in New York City

Art History

- AWS BC 3123 Women and Art
- W 4624 American Painting, 1760-1900

Dance

- BC 1247, 2248, 3249 Jazz Dance I, II, Advanced (*all three required*)
- BC 2566 History of Dance: Renaissance to the Present
- BC 3574 Contemporary Choreographers and Their Works

Economics

- BC 2010 Sex Discrimination and the Division of Labor
- BC 2013 Economic History of the United States
- BC 2014 Topics in American Economic History
- BC 3011 Poverty and Income Distribution

English

- BC 3140x
 - Sec. 1 Explorations of Black Literature: 1760-1890
- BC 3140y
 - Sec. 1 The Jazz Shape of American Culture
 - Sec. 2 American Jewish Writers
- EWS BC 3144 Minority Women Writers in the United States
- BC 3179 American Literature Before 1865
- BC 3180 American Literature, 1865-1914
- BC 3181 American Fiction
- BC 3182 American Literature, 1914 to the Present
- BC 3185 Modern British and American Poetry
- BC 3189 Post-modern Literature
- BC 3997, 3998 Senior Seminar (with instructor's permission)
 - Sec. 2 Colonial Encounters with Native Americans
 - Sec. 4 American Literature: Issues of History and Memory in American Writing
- W 4621 African-American Texts: Harlem Renaissance and Beyond
- ETR BC 3138 American Political Drama

History

- BC 1051, 1052 Survey of American Civilization
- BC 3052 The Constitution in Historical Perspective
- BC 3067 America Since 1945
- BC 3071 American Cultural History
- BC 3074 History of Sexuality in America
- BC 3082 American Women in the Twentieth Century

AMERICAN STUDIES

BC 3085 America in the 1960s
BC 3444 Bourgeois America
BC 3450 History of Childhood in America
BC 3454 Cultural Studies
BC 3458 War & 20th-Century American Culture
BC 3459 Education in American History
BC 3463 American Women in the 1920s
BC 3464 Higher Learning in America
BC 3477 Gender in the Bourgeois World
BC 3478 The New Deal and the Modern State
BC 3489 The Fourteenth Amendment and Its Uses
W 3004 African Cultures from Pre- to Post-Colonial Times

Music

V 2010 Race, Gender and the Politics of Rock 'n' Roll
V 2016 Jazz

Philosophy

ESP BC 3025 Ethics and Environment
BC 3147 Philosophical Issues of Feminist Theory
BC 3758 Philosophy of Education
BC 3780 Philosophy of Law

Political Science

BC 3001 Dynamics of American Politics
V 3313 American Urban Politics
BC 3322 The American Congress
BC 3326 Colloquium on Civil Rights and Liberties
BC 3327 Colloquium on the Content of American Politics
V 3328 Women and American Politics
BC 3331 Colloquium on American Political Decision Making
V 3320 Contemporary Black Politics
BC 3335 Mass Media and American Democracy
BC 3433 Concepts of Democratic Political Theory
W 4311 American Parties and Elections
W 4316 The American Presidency

Religion

V 3755 African-American Religion
V 3804
Sec. 36 Religion & American Political Culture
Sec. 37 Black Women's Religious Experiences
V3502 The History of Religion in America I
V 3503 The History of Religion in America II

Sociology

BC 1002 Introduction to Sociology
V 1005 Medical Care in Twentieth Century America
V 3200 Gender, Class, and Race
V 3213 Culture in Contemporary America
V 3303 Female and Male: A Sociological Perspective
V 3235 Social Movements
V 3226 Science & Society
V 3310 Women and Deviance
V 3320 Social Problems
V 3555 Sociology of Family Institutions

Spanish

BC 3203 20th Century Women Poets of the Americas: Kindred Voices
BC 3204 Literature of the Americas

Women's Studies

V1001 Women and Men: Power, Politics, Poetry
BC 3111, 3113 Major Texts of the Feminist Tradition, I and II
BC 3117 Women and Film
V 3118 Images of African American Women in Film from 1900-Present
V 3502 Women and Science
V 3508 Asian American Women's Literature

ANCIENT STUDIES

216 Milbank Hall

854-2852

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia): Alexander MacGillivray (Representative for Columbia)

Professors of Classics: Helene P. Foley (Representative for Barnard), Lydia Lenaghan

Professor of History (Columbia): William V. Harris

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least four courses in one geographical area or period; courses in at least three departments (to ensure proper interdisciplinary training and experience); the elementary sequence of a relevant ancient language; the appropriate history course, and at least the first semester of *Ancient Studies* V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for *Ancient Studies* V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y

Directed Readings in Ancient Studies

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s). —Staff

Permission of the departmental representative required.
3 points. Hours to be arranged.

ANC V 3998x, ANC V 3999y

Directed Research in Ancient Studies

A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative

and the appropriate adviser decided upon by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses. —Staff
Permission of the departmental representative required.
3 points. Hours to be arranged.

A list of other relevant courses of instruction offered in 1992-93 may be obtained from the Representative for Barnard.

ANTHROPOLOGY

411 Milbank Hall

854-4315, 5417

Professors: Morton Klass, Abraham Rosman¹, Paula G. Rubel¹, Joan Vincent

Associate Professor: Nan Rothschild (Chair)

Other officers of the University offering courses listed below:

Professors: Alexander Alland, Myron Cohen, Ralph Holloway, Don J. Melnik², Michael Taussig, Elliot P. Skinner

Associate Professors: Theodore Bestor, Elaine Combs-Schilling, Terence D'Altroy, Katherine Newman¹

Assistant Professors: Marina Cords, David Koester¹, Olivier de Montmollin, Glenn Stone

¹Absent on leave 1993-94

²Absent on leave Spring term

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements. Courses listed as W 4000 are open to majors, non-majors and interested graduate students.

The department also cooperates with related programs such as American Studies, Foreign Area Studies, Pan-African Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology. Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of the four fields of anthropology (cultural and physical anthropology, archaeology and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*

and one of the following:

ANT V 1007 *The Origins of Human Society*

ANT V 1008 *The Rise of Civilization*

ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Living in Society: Social Relations*

ANT V 3041 *Theories of Culture: Past and Present*

and

BC 3871x-BC 3872y *Problems in Anthropological Research*

plus at least four other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields, such as medicine, administration, public relations, law, social work, and so on.

Senior Essay

All students majoring in Anthropology are required to submit an "Essay" of substantial length and scholarly depth. Such a paper will usually be written during the course of the Senior Seminar or, under special circumstances, and with department approval, in one or two semesters of BC 3999x,y *Individual Projects*.

REQUIREMENTS FOR THE MINOR

The minor consists of five courses: ANT V 1002; one of the following: V 1007, V 1008, or V 1010; plus three other Anthropology courses selected in consultation with the chair.

Prelaw and premedical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x,y

The Interpretation of Culture

The anthropological approach to the study of culture and human society. Using case studies from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.

3 points.

x: Sec. 1 M W 2:40-3:55—M. Klass

Sec. 2 Tu Th 6:10-7:25—Instructor TBA

y: Sec. 1 M W 2:40-3:55—M. Weisgrau

Sec. 2 Tu Th 4:10-5:25—M. Taussig I S

Discussion hours TBA.

ANT V 1007x, y

The Origins of Human Society

An archeological perspective on the earliest forms of human culture in the prehistoric past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity.

3 points. x: Tu Th 2:40-3:55—N. Rothschild

y: Tu Th 10:35-11:50—G. Stone S

ANT V 1008y

The Rise of Civilization

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America. —T. D'Altroy

3 points. M W 1:10-2:25

I S

ANT V 1010x

The Human Species: Its Place in Nature

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's theory of evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution. —D. Melnick

3 points. M W 11:00-12:15

S

ANTHROPOLOGY

ANT V 1011y
Behavioral Biology of the Living Primates
Study of non-human primate behavior from the perspective of phylogeny, adaptation, physiology and anatomy, and life history. Focuses on the four main problems primates face: finding appropriate food, avoiding being eaten themselves, reproducing in the face of competition, and dealing with social partners. —M. Cords
Prerequisite: V 1010.
3 points. M W 11:00-12:15 S

ANT V 1015y
Multiculturalism:
Ways of Looking at Other Cultures
3 points. Not offered in 1993-94. I S

Linguistics LIN V 1101x, y
Introduction to Linguistics
See Linguistics listing.

TOPICAL COURSES

ANT V 3002y
Political Anthropology
3 points. Not offered in 1993-94. I S

ANT V 3005x
Societies and Cultures of Africa
3 points. Not offered in 1993-94. II S

ANT V 3009y
Peoples and Cultures of
North Africa and the Middle East
An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce, and Islam in the construction of Muslim societies. —E. Combs-Schilling
3 points. Tu Th 4:10-5:25 II S

ANT V 3011x
Living in Society: Social Relations
Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods. —J. Vincent
Prerequisite: An introductory anthropology course.
3 points. Tu Th 10:35-11:50 I S

ANT V 3014x
East Asian Societies and Cultures
Introduction to the contemporary societies of China, Japan and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies. —M. Cohen
3 points. M W 2:40-3:55 S

ANT V 3015y
Chinese Society and Culture
3 points. Not offered in 1993-94. II S

ANT V 3017y
Caribbean Societies in the Global System
From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful socio-cultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism. —E. Skinner
3 points. M W 11:00-12:15. III S

ANT V 3024y
Changing Africa
3 points. Not offered in 1993-94. II S

ANT V 3025x
Law, Culture, and Society
3 points. Not offered in 1993-94. I S

ANT V 3030x
Japanese Society and Culture
From Jomon archaeology to Sony's Walkman: an introduction to Japanese patterns of cultural identity, interpersonal relations, and organizational behavior. Emphasis on socio-cultural factors influencing Japan's emergence as a leading post-industrial society. —T. Bestor
3 points. M W 1:10-2:25 II S

ANT V 3031x
Scientific Reasoning and Archaeology
3 points. Not offered in 1993-94.. S

ANT V 3035y
Popular Religion in Chinese Society
Chinese popular religion and ritual during the late traditional period and under the impact of political and social change during modern times. Popular beliefs and practices concerning the cosmos, the gods, and the ancestors; the role in popular religion of the institutions of Buddhism, Taoism, and the Imperial State Cult; popular religion, social change, and the modern assault on "superstition." —M. Cohen
3 points. M W 2:40-3:55 II S

ANT V 3036x
Peasant Societies
3 points. Not offered in 1993-94. I S

ANT V 3038x

Ethnicity and Race

Analysis and comparison of ethnic and race relations in the context of social change and historical transformation, with particular reference to the United States, Europe, Africa and Asia.

—M. Weisgrau

3 points. Tu Th 1:10-2:25 I S

**Anthropology-Women's Studies ANW V 3039y
Women in Third World Development**

Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.

3 points. Not offered in 1993-94. I S

ANT V 3041y

Theories of Culture: Past and Present

Intellectual currents contributing to the development of anthropology as a discipline. Theoretical writings of the anthropological ancestors as well as those of current practitioners will be considered. —J. Vincent

3 points. Tu Th 10:35-11:50 I S

ANT V 3044y

Symbolic Anthropology

3 points. Not offered in 1993-94. S

ANT V 3068y

Myths, Sagas and Cultures of the Far North

3 points. Not offered in 1993-94. III S

ANT V 3070x

**The Study of Cities:
An Archaeological Perspective**

A consideration of cities from several points of view; a developmental and comparative perspective, looking at urban origins. Focus on New York City from its inception to the present, examining its spatially defined sub-units ("neighborhoods"), structured by class and ethnicity. —N. Rothschild

3 points. Tu Th 9:10-10:25 S

ANT V 3100y

Anthropology of Urban Life

A cross-cultural introduction to the rise of cities and contemporary patterns of urban culture, social life, and the use of space. Examines East Asian, Latin American, African, and European cities, as well as New York. —T. Bestor

3 points. M W 1:10-2:25 I S

ANT V 3115x

Peasants, Class and Conflict in Central America

3 points. Not offered in 1993-94. III S

ANT V 3128y

Microbes, Magic, and Medicine

3 points. Not offered in 1993-94. I S

ANT BC 3142x, y

Colloquium: Current Anthropological Theory

Intensive analysis of selected theoretical approaches and issues in anthropology.

Enrollment limited to 16 students.

4 points. I S

1. Male and Female Cultural Constructions of Gender

Not offered in 1993-94.

x: 6. Interpretation and Explanation in Anthropology

An examination of the different understandings, interpretations and explanations which have been offered in anthropological theory and research over the past decade. —J. Vincent

4 points. W 2:10-4:00 I S

ANT W 3204x

Dynamics of Human Evolution

Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology. —R. Holloway

Prerequisite: V 3201 or permission of the instructor.
4 points. Th 4:10-6:00 S

ANT V 3215x

Biological Determination and Culture

3 points. Not offered in 1993-94. S

ANT V 3280y

Black Nationalism and the Race/Culture Dialogue in the U.S.

Anthropological and other social science concepts used to examine the historical experiences of Africans as they have used the ideology of "Black Nationalism" to deal with the conditions they encountered during the evolution of American society. —E. Skinner

3 points. M W 1:10-2:35 I S

ANT V 3320y

Culture, Tourism and Development

An introduction to anthropological models to analyze cultural processes and economic relationships of international tourism. Examines policy and practices of tourism as sustainable development strategy from the perspectives of international and state class formation, gender, the environment, indigenous peoples, and cultural resource management in underdeveloped countries. —M. Weisgrau

3 points. Tu Th 2:40-3:55 I S

ANT V 3405y

History and Time in Anthropology

3 points. Not offered in 1993-94. S

ANTHROPOLOGY

ANT V 3410x

Controversial Issues in Anthropology

A discussion of classic controversies in anthropology, how anthropological ideas have evolved, and some of the issues involved. Fieldwork, the Virgin birth, marriage, symbols and pragmatics, and relativism are among the topics covered. —K. Ikeda
Enrollment limited to 16.

3 points. Tu Th 4:10-5:25

S

ANT V 3500y

Colloquium: Problems in Structuralism

Enrollment limited to 20 students.

4 points. Not offered in 1993-94.

S

ANT V 3700x

Colloquium: Anthropological Research Problems in Complex Societies

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America. —M. Weisgrau

4 points. W 11:00-12:50

I S

ANT V 3712x

Colloquium: Lines that Divide: Race, Gender and Ethnicity in Contemporary America

Enrollment limited to 25.

4 points. Not offered in 1993-94.

S

ANT V 3713y

Colloquium: Ties that Bind: Institutions and Communities in Contemporary America

Enrollment limited to 25.

4 points. Not offered in 1993-94.

ANT V 3718y

Colloquium: Gender, Development and Empowerment

Enrollment limited to 12 students.

4 points. Not offered in 1993-94.

I

ANT V 3720x

Colloquium: Marxism and Ethnography

Enrollment limited to 20 students.

3 points. Not offered in 1993-94.

ANT V 3750x

Quantitative Thinking in Anthropology

4 points. Not offered in 1993-94.

ANT V 3760y

Colloquium: Stratification, Inequality and Prejudice

Prerequisite: ANT V 1002 or equivalent.

Enrollment limited to 25.

4 points. Not offered in 1993-94.

I

ANT V 3830y

Male and Female: Monotheisms and Polytheisms Compared

Limited to 12 advanced undergraduates.

4 points. Not offered in 1993-94.

ANT BC 3868y

Ethnographic Field Research in New York City

Open to non-majors with permission of instructor.

4 points. Not offered in 1993-94.

ANT V 3905x

Aztecs, Mayas, and the Mesoamerican Past

3 points. Not offered in 1993-94.

III S

ANT V 3910x

Peasant Societies and Their Transformation

3 points. Not offered in 1993-94.

I S

ANT V 3920x

Economy and Society in Prehistory

An examination of the economic organization of prehistoric and ancient societies, from the earliest hunters and gatherers to the first empires. Topics include production, consumption, exchange, and decision-making in early societies, e.g., subsistence practices, market and non-market exchange, specialized production and monetary systems, and the relationship between economic organization and political development.

—O. de Montmollin

Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.

4 points. Tu 11:00-12:50

I

ANT V 3930x

Archaeological Perspective of Cultural Evolution

4 points. Not offered in 1993-94.

I S

ANT V 3940x

Current Controversies in Primate Behavior and Ecology

Critical in-depth evaluation of selected issues in primate social ecology, including adaptationism, sociality, sexual competition, communication, kinship, dominance, cognition, and politics. Emphasizes readings from original literature. —M. Cords
Enrollment limited. Prerequisite V1010, V3210 or permission of the instructor.

4 points. F 11:00-12:50

S

ANT V 3942x

Colloquium: Anthropological Study of Ritual

4 points. Not offered in 1993-94.

ANT V 3948x

Rights and Rituals in Africa and the Diaspora: Pan-African Dilemmas

3 points. Not offered in 1993-94. II S

ANT W 4114x

The Anthropology of Religious Belief

"Religion" approached as a dimension of "Culture" — in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed.—M. Klass

3 points. M 9:00-10:50 plus hour to be arranged. I S

ANT W 4150y

Ethnology of Native Americans

3 points. Not offered in 1993-94. II S

ANT W 4187x

Life in Rural South Asia

Examination of the circumstances under which one out of every six people on Earth currently live: the course explores varieties of South Asian communities, religions, and economic and social systems — with particular attention to the manifestations of caste and Hinduism on the village level. —M. Klass

3 points. M 9:00-10:50 plus hour to be arranged. II S

ANT W 4230x

Food and Society

3 points. Not offered in 1993-94. S

ANT W 4236x

Ecological Studies in Anthropology

The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment. —G. Stone

3 points. W 11:00-12:50 plus hour to be arranged. I S

ANT W 4258y

Ancient States in the New World

3 points. Not offered in 1993-94.

ANT W 4346x

Laboratory Techniques in Archaeology

3 points. Not offered in 1993-94.

ANT W 4350y

Cultural Resource Management

3 points. Not offered in 1993-94. S

ANT W 4354y

Archaeology of New York City

3 points. Not offered in 1993-94.

ANT W 4625x

Anthropology and Film

3 points. Not offered in 1993-94.

Anthropology-Asian Studies AAS V 3500x
Self and Life Course in Japan

—K. Ikeda

3 points. Tu Th 1:10-2:25 II S

Anthropology-Asian Studies AAS V 3501y
Women in Japanese Society

—K. Ikeda

3 points. Tu Th 1:10-2:25 H

COURSES FOR MAJORS

ANT BC 3871x-3872y

Senior Seminar:

Problems in Anthropological Research

Discussion of research methods and planning and writing of a Senior Essay will accompany research on problems of interest to students, culminating in the writing of individual Senior Essays. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester. —Staff

4 points. M 4:10-6:00

ANT BC 3999x, y

Individual Projects

Research projects are planned in consultation with members of the department and work is supervised by the major's adviser. —Staff

Permission of the department required.

4 points. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the Department Chair and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences.

ANT G 4226y

Culture and the Plastic Arts

3 points. Not offered in 1993-94.

ARCHITECTURE

310 Barnard Hall

854-8430

Lecturer: Peggy Deamer (Acting Director)

Adjunct Assistant Professors: Liseanne Couture, Glynis Berry, Richard Sommer, Taeg Nishimoto, Suzanne Stephens

Other officers of the University offering courses listed below:

Adjunct Assistant Professors: Frederick Biehle, Karen Fairbanks (Columbia College Departmental Representative), Eugene Santomasso, Madeline Schwartzman, Anthony Caradonna, David Sherman, Joeb Moore, Carol Willis, Michael Webb.

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a "cluster" of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete 14 courses, at least five of which should be Barnard courses:

Four Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103	<i>Architectural Representation: Perception</i>
ARC V V 3101	<i>Architectural Representation: Abstraction</i>
ARC V 3201, V 3202	<i>Architectural Design I and II</i>

Five Lecture courses from the following list*

ARC BC	3117	<i>Perceptions of Architecture</i>
ARC C	3301	<i>The Beginnings of Architecture</i>
ARC C	3302	<i>Architecture of the Western World</i>
ARH V	3080	<i>Pre-Columbian Art & Architecture</i>
ARH V	3248	<i>Greek Art and Architecture</i>
ARH V	3250	<i>Roman Art and Architecture</i>
ARC A	6730	<i>American Architecture before 1876</i>
ARC A	4341	<i>American Architecture 1876-1976</i>
ARH W	3645	<i>Twentieth-Century Architecture and City Planning</i>
ARC A	4330, 4331	<i>Urban History I and II</i>
ARC W	4321	<i>Joan Soane and his Contemporaries</i>
ARC W	3833	<i>Architecture 1750-1890</i>
ARC W	3180	<i>Art and Architecture of Ancient Egypt</i>
ARC F	3642	<i>Monuments of New York</i>

Two Seminars to be taken in the junior or senior year.*

ARC V	3901	<i>Senior Seminar</i>
ARC BC	3431	<i>Architectural Criticism in the Essay Form</i>
ARC BC	3443	<i>Principles of Japanese Architecture</i>
ARC C	3994	<i>Le Corbusier</i>
ARC C	3928	<i>Venice</i>

*Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

Three cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a licensure in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC	3211	<i>Architectural Design III</i>
Physics V	1003	<i>General Physics</i>
Mathematics V	1100	<i>Brief Calculus</i>

Note: All studio, seminar, and upper-level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 or V 3101, and three history/theory courses to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC BC 3117y
Perceptions of Architecture
Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts.—R. Sommer
Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.
3 points. Tu Th 2:40-3:55 H

ARC C 3301x
The Beginnings of Architecture
Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomaso
Recommended in the first or sophomore year.
3 points. Tu Th 4:10-5:25 H

ARC C 3302y
Architecture in the Western World
Continuation of C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomaso
Recommended in the first or sophomore year.
3 points. Tu Th 4:10-5:25 H

ARC V 3901x, y
Senior Seminar
Readings, individual class presentations, and written reports.—P. Deamer, C. Willis and J. Moore
Open to architecture majors only.
3 points.
x: W 6:10-8:00 —P. Deamer
y: Sec. 1 M 7:30-9:30 —J. Moore
Sec. 2 M 2:10-4:00 —C. Willis

ARC BC 3431x
Architectural Criticism in the Essay Form: Seminar
Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present. —S. Stephens
4 points. W 12:10-2:00 H

ARC BC 3443y
Principles of Japanese Architecture: Seminar
Investigations of traditional Japanese domestic and temple architecture and related arts, through study of the history, culture, building typologies, aesthetics/space concepts and formal analysis. Examples such as the Minka (peasant house), Ise Shrine, Katsura, will be studied. —G. Berry
4 points. Th 4:10-6:00 H

ARCHITECTURE

STUDIO COURSES

ARC V 3103x, y

Architectural Representation: Perception

Introduction to design through studies in perception and visualization, using drawings from nature and architecture. Emphasis on exploratory, inventive processes for the generation, development and representation of ideas in a variety of media. —M. Schwartzman and staff

Recommended in the sophomore year.

3 points. Sec. 1 Tu Th 9:00-10:50

Sec. 2 Tu Th 11:00-12:50

ARC V 3101x, y

Architectural Representation: Abstraction

Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. Students work in a studio environment. —K. Fairbanks and staff

Recommended in the sophomore year.

3 points.

Sec. 1 Tu Th 9:00-10:50

Sec. 2 M W 1:00-2:50

Sec. 3 Tu Th 7:00-8:50 (y only)

ARC V 3201x

Architectural Design I

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions and written analysis—K. Fairbanks and Staff

Prerequisite: V 3103 and V 3101.

4 points. M W 9:00-11:50

ARC V 3202y

Architectural Design II

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises. —P. Deamer and staff

Prerequisite: V 3201.

4 points. M W 9:00-11:50

ARC BC 3211x

Architectural Design III

Further exploration of the design process through studio work. Programs of considerable functional, contextual, and conceptual complexity are undertaken. —T. Nishimoto, L. Couture
Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class. Prerequisites: V 3202 and permission of the program adviser.

4 points. M W 9:00-11:50

ARC BC 3099x, y

Independent Study

Prerequisite: permission of program adviser for Barnard College, in semester prior to that of independent study.

ART HISTORY

301 Barnard Hall

854-2118

Professors: Natalie B. Kampen² (Women's Studies), Keith Moxey³ (Chair), Barbara Novak (Helen Goodhart Altschul Professor), Jane Rosenthal (Chair, Spring term)

Assistant Professor: Sheila McTighe¹, Margaret Werth

Adjunct Professors: Maryan Ainsworth

Associates: Joan Snitzer, Ann McCoy

Other officers of the University offering courses listed below:

Professors: James Beck³, Richard Brilliant³, Joseph Connors, Jonathan Crary², Alfred Frazer³, David Freedberg, Rosalind Krauss, Robin Middleton¹, Miyeko Murase, Stephen Murray, Esther Pasztory³, Theodore Reff³, David Rosand, Allen Staley

Associate Professors: Suzanne Blier¹, Vidya Dehejia

Assistant Professors: Hilary Ballon, Barry Bergdoll², Thomas Dale¹, Johanna Drucker, Alexander MacGillivray, John Russell, David Sensabaugh, Janis Tomlinson

¹Absent on leave 1993-94

²Absent on leave Autumn Term

³Absent on leave Spring Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

Requirements for the major in the History of Art: Nine Art History courses including at least one each in ancient, medieval, Renaissance, baroque and modern art, and two seminars. Both seminars may be taken in one of the required periods. Art History BC 1001, 1002, *Introduction to the History of Art*, is strongly suggested as an introduction to the field unless a student has sufficient previous training. It is also recommended as a prerequisite to all upper level courses. Each semester of BC 1001, 1002, counts as an elective toward fulfillment of the nine-course requirement but neither this, nor any other broad survey, can be substituted for a course in one of the five major areas. Of the nine courses required, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Asian art and who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

A senior essay is required of the major. With the chair's permission, seniors may elect Art History BC 3999 *Independent Research*, for the senior essay but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

ART HISTORY

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts:
Seven Art History courses including:

- BC 1001, 1002 *Introduction to the History of Art*
- An advanced seminar in art history
- One course in 19th or 20th century art
- ARS BC 3031 *Imagery and Form in the Arts*.
- In addition, students must take a minimum of five studio art courses.

A senior project is required. This may take the form of a critical essay dealing with contemporary art or an exhibition of the student's work with an accompanying paper defining the artistic character of the work.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001, BC 1002, and one each in three of the following periods: ancient, medieval, Renaissance, baroque, and modern.

COURSES OF INSTRUCTION

ARH BC 1001x, 1002y

Introduction to the History of Art

An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly restricted to the art of Western Europe, the course will attempt to include reference to other cultures where possible. There will be no attempt at coverage. Works of art from different periods will be selected for discussion in depth. All members of Barnard's art history faculty will contribute lectures in their fields of specialization. Autumn Term: Ancient, Medieval and Renaissance. Spring Term: Baroque, Modern and Contemporary. —K. Moxey, other instructors TBA. 4 points. M W 1:10-2:25 plus hour TBA. H

ARH V 3030x

Arts of Africa

An introduction to the principle sub-Saharan African art traditions. A thematic rather than geographic approach stresses intellectual, social, and religious aspects of African art and issues of historiography, iconography, aesthetics, and meaning. —M. Nooter 3 points. M W 10:35-11:50 H

ARH V 3080y

Pre-Columbian Art and Architecture

3 points. Not offered in 1993-94. H

ARH W 4130y

The Indian Temple

3 points. Not offered in 1992-93 H

ARH W 3115x

Art and Archeology of Prehistoric Greece

A detailed survey of the early cultures of Neolithic and Bronze Age Greece highlighting the appearance of the first advanced civilizations of Europe: the Minoans in Crete and the Mycenaeans, forerunners of the classical Greeks. —A. MacGillivray 3 points. Tu Th 9:10-10:25 H

ARH W 3180x

Art and Architecture of Ancient Egypt

3 points. Not offered in 1993-94. H

ARH W 3127x

History of Indian Art

A general introduction focusing on selected topics, including Buddhist narrative sculpture, rock-cut monuments of the Deccan, Hindu temples, miniature painting, and art associated with tantra. —V. Dehejia 3 points. Tu Th 2:40-3:55 H

ARH V 3201x

Arts of China

An introduction to the arts of China, ceramics, bronzes, painting, and sculpture, from the earliest farming cultures (ca. 5000 B.C.E.) to the end of the traditional period (ca. 1750 C.E.). —D. Sensabaugh 3 points. Tu Th 4:10-5:25 H

ARH V 3203y
Arts of Japan

A survey of Japanese art from the Neolithic through the Edo period, with emphasis on Buddhist art, scroll painting, decorative screens, and wood-block prints. —M. Murase
3 points. Tu Th 4:10-5:25 H

ARH W 4179x
Art and Archaeology in Early Anatolia

—A. MacGillivray
3 points. M W 1:10-2:25 H

ARH V 3248x
Greek Art and Architecture

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. —A. Frazer
3 points. Tu Th 2:40-3:55 H

ARH V 3250y
Roman Art and Architecture

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. —N. Kampen
3 points. Tu Th 2:40-3:55 III H

ARH W 4455x
Byzantine Art from Justinian to the Palaeologan Renaissance

3 points. Not offered in 1993-94. H

ARH V 4256y
Art of the Greek Dark Ages

—A. MacGillivray
3 points. Tu Th 10:35-11:50 H

ARH BC 3351x
Early Christian and Early Medieval Art

The origins of Christian art before Constantine and the subsequent development of architecture, sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century. —J. Rosenthal
3 points. M W 2:40-3:55 III H

ARH W 4315y
The Making of Medieval Art, 650-900 AD

3 points. Not offered in 1993-94. H

ARH BC 3352y
Art of the Later Middle Ages

Between the 11th and 14th centuries the political, economic and cultural life of Europe underwent profound change. This course provides an exploration of the Medieval visual arts within this dynamic framework. —S. Murray
3 points. M W 2:40-3:55 H

ARH W 4313y
English Romanesque Art

3 points. Not offered in 1993-94. H

ARH W 4356y
Gothic Painting in France, 1200-1350

3 points. Not offered in 1993-94. III H

ARH W 3420x
Italian Sculpture during the Renaissance

3 points. Not offered in 1993-94. H

ARC W 3400x
Italian Renaissance Painting I

The origins and development of Renaissance painting: humanism and religion, perspective and art theory, the revival of classical form and content. Emphasis on major centers, especially Florence and Venice and the courts, and on the major masters: Masaccio, Fra Angelico, Piero della Francesca, Giovanni Bellini, Leonardo da Vinci. —J. Beck
3 points. M W 5:40-6:55 H

ARH V 3437y
Italian Renaissance Painting II

3 points. Not offered in 1993-94. H

ARH V 3475y
Art and Culture of the Northern Renaissance

3 points. Not offered in 1993-94. III H

ARH W 4547y
French Painting and the Birth of Art Criticism in the Ancien Régime, 1640s-1780s

Prerequisites: BC 1001-1002 and one other upper level course or permission of the instructor.
4 points. Not offered in 1993-94. III H

ARH W 4480x
Art in the Age of the Reformation

This course will trace the ways in which the cultural and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation. —K. Moxey
3 points. Tu Th 10:35-11:50 III H

ARH W 4428x
Italian Baroque Architecture

—J. Connors
3 points. M W 10:35-11:50 H

ARH V 3500y
Seventeenth-Century Art in Italy, France, and Spain

3 points. Not offered in 1993-94. H

ART HISTORY

ARH BC 3520y

Roman Baroque Art

3 points. Not offered in 1993-94.

III H

ARH W 4624x

American Painting, 1760-1900

Some of the principal ideas behind the American painting tradition, with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science, and literature.

—B. Novak

3 points. Tu Th 2:40-3:55

H

ARH C 3643y

The American City: A History of Urban Form and City Planning

—H. Ballon

3 points. Tu Th 10:35-11:50

H

ARH V 3748y

Eighteenth-Century Art

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background.

—A. Staley

3 points. Tu Th 4:10-5:25

H

ARH W 3600x

Nineteenth-Century Art

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.

—J. Tomlinson

3 points. M W 2:40-3:55

H

ARH W 3650y

Twentieth-Century Art

The major trends and sources of 20th-century painting, sculpture, and architecture, with special emphasis on an understanding of the cultural environment and related developments. —R. Krauss

3 points. Tu Th 2:40-3:55

H

ARH V 3670y

Modernism in America

3 points. Not offered in 1993-94.

H

ARH W 4840x

Art Since 1945

A comprehensive survey of major trends in the visual arts since 1945 (Abstract Expressionism through Postmodernism) with an emphasis on American and European artists and movements.

—J. Drucker

3 points. M W 5:40-6:55

H

ARH W 3645y

Twentieth-Century Architecture and City Planning

Major movements, figures and theoretical positions in Europe and American architecture since 1890 in Europe and America. Attention to the influential urban proposals of Wright, Le Corbusier, Hilbeshheimer, CIAM, Archigram, the Metabolists, and Venturi & Scott Brown. —B. Bergdoll

3 points. M W 2:40-3:55

H

ARH W 4667x

Arts in Italy since 1945

3 points. Not offered in 1993-94.

H

ARH W 3883x

Architecture 1750-1890

3 points. Not offered in 1993-94.

H

AWS BC 3123y

Women and Art

3 points. Not offered in 1993-94.

I H

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH W 3912y

Exhibiting African Art

Issues surrounding the presentation of non-Western art in Western museum settings. Theoretical readings on the politics of display and critical analysis of specific exhibitions. —M. Nöoter

Prerequisite: Art History V 3030

4 points. Th 10:00-11:55

H

ARH C 3916x

Nineveh and its Remains

Intensive investigation of Ancient Nineveh, one of the oldest cities in the Middle East and capital of the world from 705 to 612 B.C. —J. Russell

4 points. M 10:00-11:55

H

ARH C 3910y

Art of the Han Dynasty

A study of issues in the art of early imperial China. Various mediums will be discussed in relation to important recent archaeological discoveries, such as the tombs at Ma-wang-tui and Man-ch'eng, as well as in relation to the major funerary monuments of the Eastern Han period. —D. Sensabaugh

4 points. Th 10:00-11:55

H

- ARH C 3913y**
Art in Periclean Athens
 4 points. Not offered in 1993-94. H
- ARH C 3915y**
Art and Politics in Augustan Rome
 4 points. Not offered in 1993-94. H
- ARH C 3933y**
Medieval Art at the Cloisters
 4 points. Not offered in 1993-94. H
- ARH BC 3953y**
The Art of Medieval Manuscript Illumination
 4 points. Not offered in 1993-94. H
- ARH C 3956x**
Pieter Bruegel
 Examines the art of Bruegel in the context of the great social, religious, and historical upheavals of his time. —D. Freedberg
 4 points. Hours TBA H
- ARH C 3973x**
Michelangelo
 —D. Rosand
 4 points. Not offered in 1993-94. H
- ARH BC 3941y**
Garden and Landscape in Renaissance Italy
 Real and imagined landscapes in Italy in the 15th and 16th centuries, with reference to antecedents in the ancient world and to Italian influence on French and English gardens of the 17th and 18th centuries. —J. Connors
 4 points. M 2:10-4:00 H
- ARH BC 3974y**
Matisse
 A study of the early career of Henri Matisse, with a consideration of the significance of exhibition, reception, dealers and collectors, his social and cultural context, as well as questions of interpretations. —M. Werth
Prerequisite: Permission of the instructor.
 4 points. F 2:10-4:00 III H
- ARH BC 3975x**
Landscape Painting in the 19th-Century
 Selected topics in landscape painting from the late 18th to the early 20th century in Europe and the United States, with an emphasis on France. —M. Werth
Prerequisite: Permission of the instructor.
 4 points. F 2:10-4:00 III H
- ARH BC 3979x**
Pieter Bruegel
 4 points. Not offered in 1993-94. III H
- ARH BC 3963x**
Caravaggio and Caravaggism in 17th-Century Painting
Prerequisite: Upper-level course in art history; designed for majors.
 4 points. Not offered in 1993-94. H
- ARH BC 3964y**
Poussin and Claude: Landscape in 17th-Century Rome
Preference to Art History majors or permission of the instructor.
 4 points. Not offered in 1993-94. H
- ARH C 3972x**
Velazquez and Painting at the Court of Philip IV (1621-1665)
Prerequisite: Art History W 3603 or permission of the instructor.
 4 points. Not offered in 1993-94. H
- AHS V 3905y**
Crosscurrents in the Art and Literature of Spain 1550-1800
For Art History majors, no language requirement. For Spanish majors, completion of the language requirement; readings to be completed in the original.
 3 points. Not offered in 1993-94. H
- ARH W**
Dutch Art and Society in the 17th-Century
 —S. Schama
 4 points. Hours TBA.
- ARH C 3948x**
Nineteenth-Century Criticism
 4 points. Not offered in 1993-94. H
- ARH W 3949x**
Colloquium: Cubism
 The development of Cubism from 1907 to 1914 and its relation to the major historical and intellectual events of the time. Discussion of various critical approaches from the first Cubist exhibition to the present. —T. Reff
Prerequisite: at least one course in modern art.
 4 points. M 4:10-6:00 H
- ARH V 3951y**
The Image of the Buddha, from New York Collections
 4 points. Not offered in 1993-94. H

ART HISTORY

ARH BC 3982y

The Literature of Art

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Foucault, Barthes, Huizinga, Wofflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Malraux, Kubler). —B. Novak
Enrollment limited to 16 students. Permission of the instructor required.

4 points. W 2:10-4:00

H

ARH BC 3985x

Introduction to Connoisseurship

Factors involved in judging works of art, with emphasis on paintings: materials, technique, condition, attribution; identification of imitations and fakes; questions of relative quality.—M. Ainsworth
Enrollment limited to 12 senior majors. Permission of the instructor required.

4 points. F 10:00-12:00

H

ARH W 3957y

Approaches to 19th-Century European Painting

Intended to familiarize students with a wide variety of methodologies that have been applied to the examination of 19th-century European painting. —J. Tomlinson

4 points. W 10:00-11:55

H

ARH C 3979x

Mark Rothko's Early Work: Critical Reception

Focus on the figurative works produced by Mark Rothko in the 1930s and 1940s in terms of their artistic, intellectual, and critical context. —J. Drucker

4 points. M 10:00-11:55

ARH C 3954y

Culture Wars: Politics and the Arts in Contemporary America

Focus on issues raised by the recent controversies over government funding of the arts, including censorship and obscenity, public art and the social responsibility of artists, government subsidization, and public policy options. —H. Ballon

4 points. Th 4:10-6:00

ARH C 3968x

Still-Life Painting, 1850-1900

4 points. Not offered in 1993-94.

ARH BC 3999x, y

Independent Research

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chair's permission. —Staff
4 points. Hours TBA.

H

ARS BC 3031x

Imagery and Form in the Arts

The operation of imagery and form in dance, music, theatre, visual arts and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored. —J. Snitzer

3 points. M 2:10-4:00

III

M 6:00-7:00. *Artsforum*

Artsforum is an informal weekly meeting with professionals in the arts.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chairman. Classes are limited in size. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the pre-registration period prior to each term. Model fees range from \$20.00 to \$45.00. For students other than those majoring in Art History with Visual Arts concentration, a maximum of four courses of studio work may be credited towards graduation; each of the second two must be matched with an art history course to be credited.

ARH BC 2003x, 2004y

Drawing in the Museum

An intensive drawing workshop geared to all levels from beginners to advanced. Includes live drawing, color theory and work in pastel. Drawing in the Museum will also examine the role played by the display of art and artifacts from all periods of history in the work of the cubists and surrealists as well as in that of such contemporary artists as Robert Smithson, Joseph Beuys, Marcel Broodthaers, Nancy Spero, Leon Golub and others. —A. McCoy
Class features several Native American and African guest lecturers.

2 points. Th 2:10-6:00

**ARH BC 2005x, 2006y, 2007x, 2008y
Painting**

Basic understanding of the visual representation of space, color, and form are developed by setting specific tasks to be executed in oil painting. Class work will include drawing and painting from the model as well as still life arrangements. Emphasis is on the painting methods and techniques used historically in Realism, Expressionism, and Abstraction. Students are encouraged to develop oral and written skills through weekly discussions and assignments that accompany the examination of visual art. No prior experience is necessary. —J. Snitzer
2 points. W 2:10-6:00

**ARH BC 2010x
Advanced Studio Painting**

3 points. M 2:10-6:00

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

**Art History H 3320 y
Medieval Art and Architecture**

Lectures and discussion on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, Sainte-Chapelle, and other sites. —Y. Carré, A. Bratu
3 points. Hours TBA. H

**Art History H 3430x, y
Renaissance and 17th-Century Art
and Architecture**

Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the

Musée Conde, Fontainebleau, Château d'Ecouen Vaux-le-Vicomte, Versailles, and the Louvre, and other sites. —C. Sala
3 points. H

**Art History H 3550x
French Architecture, 1750-1930
[in English]**

For students in the Art History Program. A survey of major figures and currents in French architecture from the birth of International Neoclassicism to the early career of Le Corbusier and his French art déco contemporaries. (See Reid Hall Bulletin for complete description.) —B. Bergdoll
4 points.

**Art History H 3604x, y
Seminar on Contemporary French Art**

Emphasis on one particular work, artist, or school. The topics for 1992-93 were *Fauvisme*, *post-impressionism*, and the "Ecole de Pont Aven" (Autumn) and the *Bauhaus movement* (Spring). —J. Ferrier
4 points. H

**Art History H 3993x Seminar
Planning Paris: Urban Form and National
Politics in the French Capital from the Enlightenment to the Fall of the Second Empire, 1750-1870 [in English]**

For students in the Art History Program. The politics of town-planning projects from the unrealized projects of the Enlightenment and the Revolution to the wide-scale transformation of the city under Baron Haussmann studied through lectures, student reports, and site visits. —B. Bergdoll
4 points. H

ASIAN AND MIDDLE EASTERN CULTURES

321 Milbank Hall

854-5416, 2125

Associate Professors: Irene Bloom (Wm. Theodore & Fanny Brett de Bary & Class of '41 Collegiate Associate Professor in Asian Humanities, and Chair), Afsaneh Najmabadi (Women's Studies)

Assistant Professor: Keiko Ikeda, Eric Huberman (visiting)

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor: William Theodore de Bary

Professors: Paul Anderer, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Chou Wen-chung (Music), Myron Cohen (Anthropology), Dieter Christensen (Music), Ainslie T. Embree (Senior Scholars Program), Nina Garsöian, Carol N. Gluck (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, John Meskill (Senior Scholars Program), Dan Miron, Miyeko Murase (Art History and Archaeology), Theodore Riccardi, Barbara Ruch, George Saliba, Conrad Schirokauer, Henry Smith, Robert A. F. Thurman (Religion), Arthur Tiedemann, H. Paul Varley, Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professor: Morris Rossabi

Associate Professors: Vidya Dehejia (Art History and Archaeology), Frances Pritchett, Haruo Shirane, Mark Van De Mieroop, David Wang

Assistant Professors: Ryuichi Abe (Religion), Hamid Dabashi, Nili Gold, Ayesha Jalal (History), Matthew Kapstein (Religion), Richard Lufrano (History), Gurinder Singh Mann (Religion), Paul Rouzer, David Sensabaugh (Art History and Archaeology), Michael Tsin, Gauri Viswanathan (English and Comparative Literature), Angela Zito (Religion).

Senior Lecturer: Jeanette Wakin

Lecturers: David Lelyveld, Marsha Wagner

The primary aim of Asian and Middle Eastern Cultures is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian*; Arabic W 1122, *Intermediate Arabic*; Armenian W 1124, *Intermediate Armenian*; Central Asian W 1110, *Intermediate Tajik*; Central Asian W 1122, *Intermediate Uzbek*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi-Urdu W 1122, *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Modern Persian*; Korean W 1202, *Intermediate Korean*; Nepali W 1122, *Intermediate Nepali*; Sanskrit G 6102, *Intermediate Sanskrit*; or Turkish W 1122, *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chair of Asian and Middle Eastern Cultures.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during a week *before* classes begin—contact the Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (602 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

ASIAN AND MIDDLE EASTERN CULTURES

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Asian and Middle Eastern Cultures is advised to consult a member of the department in the spring term of her first year.

To major in Asian and Middle Eastern Cultures, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

A minimum of 14 courses is required, including:

Asian Humanities	V 3400	<i>Colloquium on Major Texts</i>
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Two of the following courses:

Asian Civilizations-Middle East	V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Asian Civilizations-East Asia	V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
Asian Civilizations	V 3359	<i>Introduction to the Civilization of China</i>
Asian Civilizations	V 3361	<i>Introduction to the Civilization of Japan</i>
Asian Civilizations	V 3363	<i>Introduction to the Civilization of Korea</i>

Six courses of an appropriate language, selected in consultation with an adviser, four courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments; a methodology course which may include either East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*, or East Asian W 4103, *Historiography of East Asia* or another appropriate course to be chosen in consultation with the adviser; and one of the following seminars: East Asian W 3901x-3902y, *Senior Seminar: China*; East Asian W 3904y, *Senior Seminar: Japan*; or with the adviser's approval, Asian Studies BC 3999, *Independent Study*.

Note that in all East Asian language courses, the minimum grade required to advance from one level to the next is B-.

The Middle East or South Asian Track

A minimum of 12 courses is required, including:

Asian Humanities	V 3399	<i>Colloquium on Major Texts</i>
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Two of the following courses:

Asian Civilizations-Middle East	V 3001x	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Asian Civilizations-Middle East	V 3003	<i>Introduction to Islamic Civilization</i>
Asian Civilizations-Middle East	W 4210	<i>Indian Civilization</i>

Four to six courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser. A minimum of 6 courses chosen as a concentration. The concentration may be in the languages and cultures of ancient Semitic, Arabic, Armenian, Central Asian, Hebrew, Indic, Iranian, or Turkish. The courses required in each of the concentrations and other details will be explained by the department chair. They will include one advanced course or independent study leading to a senior thesis, to be written under the supervision of an appropriate faculty member, chosen in consultation with the adviser.

The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. Also see the note on Graduate Courses at the end of this section.

No minor is offered in Asian and Middle Eastern Cultures.

ASIAN AND MIDDLE EASTERN CULTURES

COURSES OF INSTRUCTION

COURSES IN ASIAN CIVILIZATIONS

Asian Civilizations-Middle East AME V 3001x Introduction to Major Topics in Asian Civilization: The Middle East and India

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world. —H. Dabashi and G. Visnawathan

4 points. M W 2:40-3:55

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3002x or y Introduction to Major Topics in Asian Civilization: East Asia

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world. —x: I.

Bloom, S. Linton, C. Schirokauer, A. Tiedemann, and staff; y: W. T. deBary, S. Linton, A. Tiedemann, and staff

4 points. Tu Th 10:35-11:50

plus additional hour TBA

II S

Asian Civilizations-Middle East AME V 3003y Introduction to Islamic Civilization

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions from its pre-Islamic Arabian setting to the present. —J. Wakin

3 points. M W 2:40-3:55

plus an additional hour TBA

II S

Asian Civilizations-Middle East AEA W 4210x Indian Civilization

—T. Riccardi

3 points. Tu Th 6:10-8:00

II S

Asian Civilizations-East Asian AME V 3359x or y Introduction to East Asian Civilizations: China

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.

3 points. x: Tu Th 1:10-2:25 —M. Tsin

y: Tu Th 1:10-2:25 —R. Hymes

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3361x, y: Introduction to East Asian Civilizations: Japan

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.

3 points. x: M W 1:10-2:25 —H. P. Varley

y: M W 11:00-12:15 —H. Smith

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3363y Introduction to Asian Civilizations: Korea

The evolution of Korean society and culture, with special attention to Korean values as reflected in thought, literature and the arts. —G. Ledyard

3 points. Tu Th 2:40-3:55

II S

Asian Civilizations ASC V 3365y Human Rights and Social Justice in Comparative Perspective

The seminar considers issues of human rights through cross-national and cross-cultural studies of modern South Asia (India, Pakistan, Sri Lanka) and China. —A. Embree and M. Wagner

4 points. M 4:10-6:00

II S

Asian Studies ASN V 3379y Readings in Asian Studies

Topic for 1994: The Asian-American experience. Readings in English on the Asian-American experience as seen from an anthropological perspective.

—K. Ikeda

3 points. Tu Th 4:10-5:25

Anthropology-Asian Studies AAS V3500x Self and Lifecourse in Japan

An examination of human lifecourse, from birth to death, within the cultural context of contemporary Japan. Topics include Japan's heritage of ideas about human nature and the growth of the self, rhythms of growth imposed by biological maturation and by the institutions of mass society, aging and death, and pathways to self-realization. —K. Ikeda

3 points. Tu Th 1:10-2:25

II S

Asian Studies ASN V3582y Chinese Political Thought

Exploration of Chinese political thought through analysis of major texts and secondary works dealing with classical thought, the evolution of the Confucian value system in the imperial period, reform movements of the late 19th and 20th centuries, Chinese Communism, voices of dissent in the 1980s and 1990s and the "new Confucianism." —I. Bloom

3 points. M W 1:10-2:25

II H

REL V 3770y

Perspectives on Religious Experience: East and West

Perspectives on varieties of religious experience as seen through the Western psychology of Freud, Jung, William James, and others, and Eastern psychological systems represented in the Yoga Sutras, the Tibetan Book of the Dead, and Zen Buddhism. —E. Huberman

3 points. Tu Th 10:35-11:50

I H

COURSES IN ASIAN HUMANITIES

Asian Humanities AHU V 3399x, V 3400y

Colloquium on Major Texts

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V 3399): the *Quran*, Islamic philosophy, Sufi poetry, the Upanishads, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's *Autobiography*; (V 3400): the *Analects of Confucius*, Mencius, Lao Tzu, Chuang Tzu, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen literature, Noh plays, Chinese and Japanese poetry.

4 points

II H

3399x: Sec. 1 M 4:10-6:00 —E. Yarshater

Sec. 2 W 4:10-6:00 —E. Huberman

y: Tu 4:10-6:00 —G.S. Mann

3400x: Tu 4:10-6:00 —H. Shirane

y: Sec. 1 M 4:10-6:00 —W. T. deBary

Sec. 2 W 4:10-6:00 —I. Bloom

Asian Humanities AHU W 4310x

Colloquium on Modern South Asian Texts

Exploration of modern South Asian self-images through the work of A.K. Coomaraswami, Gandhi, Premchand, Raja Rao, Anatha Murthy, Ghalib, Faiz, etc. Emphasis on cultural/intellectual issues and their manifestations in literary form. —F. Pritchett

Permission of the instructor required.

3 points. M 11:00-12:50

plus an additional hour TBA

II H

Asian Humanities AHU V 3200x

Oriental Encounters:

The Writer's Experience

The writer's experience of classics of India and the Middle East viewed through the perceptions of Emerson, Thoreau, Whitman, Melville, Yeats, Joyce, Eliot, Kerouac, and Ginsberg. Readings include the *Bhagavad Gita*, the Upanishads, Buddhist dialogues, the *Thousand and One Nights*, and other texts relevant to the works of these authors. —E. Huberman

3 points. Tu 2:10-4:00

I H

Asian Humanities-Music AHM V 3320y

Introduction to the Music of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen

3 points. M W 6:10-8:00

One hour is a listening hour.

II H

Asian Humanities-Music AHM V 3321x

Introduction to the Music of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —TBA

3 points. Tu Th 1:10-3:00

II H

One hour is a listening hour.

Asian Humanities AHU V 3340x, y

Masterpieces of Art in China, Japan, and Korea

Selected masterpieces of painting, sculpture and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion and literature.

3 points.

x: Tu Th 6:10-7:25. Instructor TBA.

y: Sec. 1 Tu Th 10:35-11:50. D. Delbanco

Sec. 2 Time and instructor TBA.

H

Asian Humanities AHU V 3342x, y

Masterpieces of Islamic and Indian Art

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India.

3 points. x: M W 10:35-11:50 —Instructor TBA

y: Time TBA —V. Dehejia

H

Asian Studies ASH BC 3999x, y

Independent Study

Specialized reading and research projects planned in consultation with members of the Asian and Middle Eastern Cultures teaching staff. —Staff

Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points. Hours TBA.

EAST ASIAN

Anthropology-Asian Studies AAS V 3501y **Women in Japanese Society**

Anthropological examination of women in Japanese society. Situating Japanese women among world ethnographies and applying anthropological theories, the course undertakes to reevaluate myths and stereotypes associated with Japanese women and reconsider such basic concepts as equality, power and freedom. Topics include politics, work, family and marriage, sexuality, aging, feminism, and the construction of gender ideology. —K. Ikeda
3 points. Tu Th 1:10-2:25 II S

Art History ARH V 3201x **Arts of China**

A survey of major arts of ceramics, bronzes, jades, painting, and calligraphy. Museum laboratory sessions. —D. Sensabaugh
3 points. Tu Th 4:10-5:25 H

East Asian EAS V 3315y **Literature and Film in Modern China**

An intensive examination of modern Chinese fiction and films in the context of Chinese social, political, and cultural dynamics from the May 4th Movement (1919) to the present. —D. Wang
3 points. Tu Th 4:10-5:25 H

East Asian EAS V 3623y **The World of the Shining Prince**

3 points. Not offered in 1993-94. H

East Asian EAS W 3334x **Introduction to Japanese Literature**

3 points. Not offered in 1993-94. H

East Asian EAS V 3210x **Korean Lives**

An examination of key events, institutions, and personalities in Korean history from the 18th to the 20th centuries, as seen through Korean biographical literature in translation. The emphasis is on individual responses to the challenges and problems Korea has faced in its path from Confucian kingdom to modern industrial state. —G. Ledyard
3 points. Tu Th 2:40-3:55 II H

East Asian EAS V 3565y **The Erotic Tradition in Classical Chinese Literature**

Exploration of the way pre-modern Chinese writers have expressed their attitudes toward sexuality and desire in their writings. Particular emphasis will be placed on how the role of women in traditional society shaped erotic and romantic traditions. —P. Rouzer
3 points. Tu Th 2:40-3:55 II H

Chinese CHI W 3550x **Modern Chinese Literature and Its Classical Tradition**

—D. Wang
3 points. Not offered in 1993-94. II H

Chinese CHI W 4027x-4028y **Introduction to Chinese Thought**

3 points. Not offered in 1993-94. II H

East Asian EAS V 3625y **The Samurai, a Social and Cultural History of Japan's Warrior Class**

The warrior class of premodern Japan, its traditions, customs, and values, based on portrayals of the samurai and samurai life in historical records, literature, and the visual arts. —H. P. Varley
3 points. M W 1:10-2:25 II H

East Asian EAS V 3635x **The Female Voice in Japanese Literature, Religion, and Culture**

3 points. Not offered in 1993-94. H

History-Japanese HIJ W 3600x **World War II in American and Japanese History**

—C. Gluck
3 points. Not offered in 1993-94. H

History-Japanese HIJ V 3613y **Buildings and Cities in Japanese History**

—H. Smith
3 points. Not offered in 1993-94. H

East Asian EAS V 3650x **The Family in Chinese History**

The history of the Chinese family; its changing forms and cultural expressions: marriage and divorce; parent and child; clan and lineage; ancestor worship; the role of women; the relation of family and state; Western parallels and contrasts. —R. Hymes
3 points. Tu Th 2:40-3:55 II H

History HIS BC 1021x **Late Imperial China, 1550-1900**

3 points. Not offered in 1993-94.

History HIS BC 1022y **China in the Twentieth Century**

3 points. Not offered in 1993-94.

History HIS BC 3430y **The Cultural Revolution in China**

Limited enrollment. Preregistration required.
4 points. Not offered in 1993-94.

ASIAN AND MIDDLE EASTERN CULTURES

East Asian EAS V 3580y

Dominance, Resistance and Political Culture in Modern China

Explores the shaping of political culture in modern China by asking how different forms of power—governmental, social, and economic—were structured, exercised and contested in the late imperial and republican periods. —M. Tsin

3 points. Hours TBA II S

East Asian EAS W 4101y

Critical Approaches to East Asian Literature

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. —H. Shirane

3 points. Tu 4:10-6:00 H

East Asian EAS W 4103y

Historiography of East Asia

Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. —C. Gluck

3 points. W 11:00-1:00 S

History-Korean HIK W 4031x

The History of Korea to 1636

An introduction to the development of Korean civilization from the Neolithic age to 1636.

—G. Ledyard

3 points. Tu Th 1:10-2:25

History-Korean HIK W 4033y

The History of Modern Korea

Korean history from 1636 to the present.

—G. Ledyard

3 points. Tu Th 1:10-2:25 S

Religion REL V 2603y

Taoism

—A. Zito

3 points. Tu Th 10:35-11:50 H

East Asian EAS W 3901x-W3902y

Senior Seminar: China

Senior thesis seminar, required of all majors specializing in China. —Staff

3901x: research. 3902y: writing. Senior majors only. 2 points each term. Hours to be arranged.

East Asian EAS W 3903x-W3904y

Senior Seminar: Japan or Korea

Senior thesis seminar required of all majors specializing in Japan or Korea. —Staff

3903x: research. 3904y: writing. Senior majors only. 2 points each term. Hours TBA.

MIDDLE EAST AND SOUTH ASIA

Hebrew W 3410x

Introduction to Modern Hebrew Culture

—D. Miron

3 points. M W 2:40-3:55 H

Comparative Literature-Middle

East CME W 4115y

Traditions of Indian Literature:

Epic, Drama, and Lyric

3 points. Not offered in 1993-94. II H

Islamic-Religion ISR V 2630y

Islam

Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th-13th century C.E.), and their continued evolution in a variety of cultural settings. —P. Awn

3 points. Tu Th 4:10-5:25 II H

Religion REL V 2600x

Hinduism

—J. Hawley

3 points. Tu Th 2:40-3:55

COMPARATIVE COURSES

Middle East-Religion MDR W 3030y

Poetics of the Sacred: A Cross-Cultural Investigation into the Nature of Mysticism and Poetic Language

An examination of the work of mystic-poets from both Asian and Western traditions, focusing on the paradigm of vision and silence, the effort to express the ineffable. Readings include the Upanishads, Rumi, Han-shan, John of the Cross, William Blake, T.S. Eliot, Gary Snyder, and critical works on mysticism and poetic language. —E. Huberman

4 points. W 11:00-12:50

Political Science POS BC 3414y

Women in Third World Politics

—L. Calman

3 points. Th 2:10-4:00 H

Religion REL V 1102y

Introduction to the Study of Eastern Religions

—J. Hawley, A. Zito

3 points. M W 2:40-3:55 H

Also note offerings under departments of Anthropology, Art History, History, Political Science and Religion.

ASIAN AND MIDDLE EASTERN CULTURES

ASIAN LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

BIOLOGICAL SCIENCES

1203 Altschul Hall
General Biology Course Office: 911 Altschul Hall

854-2437
854-2153

Professors: Philip V. Ammirato (Chair), Patricia L. Dudley, Paul E. Hertz¹

Associate Professors: Julia Chase-Brand, James P. Mohler

Assistant Professors: Nathan M. Chu², Ruth E. McChesney, Bruce A. O'Gara, Jeanne S. Poindexter, Helen J. Young

General Biology Laboratory Staff:

Director: Alice M. Walrath

Associate Director: Paul Kelly

Laboratory Associates: John Cozza, Mary Katz, Paul Kelly, Wanda Knauss, Cliff Kolba, Tasneem Qamar, Christopher Raymond, Harriet Waks

Other officers of the University offering courses listed below:

Professors: Walter J. Bock, Alexander A. Tzagoloff, Geoffrey Zubay

Assistant Professor: Teri Melese, T. Hazel Rigg

¹Absent on leave 1993-94

²Absent on leave Autumn term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. Some of the most exciting issues of our era, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard courses cover molecular biology; the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many sub-fields of biology leading to a teaching and/or research career. Still others plan futures as scientific writers, illustrators or photographers, researchers in industry or government or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, PCR thermocycler, a chemostat and a computer based neurophysiology data acquisition system. The facilities include an autoradiography facility, constant temperature rooms, darkrooms, an animal care facility, a workshop and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, the Maura Shannon Barrett '83 Internship Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the research of the Barnard faculty is available from research grants and program grants. Advanced students may also work as Teaching Assistants in introductory courses.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology. For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with

BIOLOGICAL SCIENCES

detailed discussions of three important topics. Both BC 1001 and BC 1002 include a laboratory component and together fulfill Barnard's laboratory science requirement (though neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x.

However, students who enter Barnard with a strong background in Biology should enroll directly in the 2000-level sequence. The four 2000-level courses (two lecture courses and two laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in the other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who have passed the Advanced Placement examination with a grade of 4 or 5 and evidence of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the science requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of either BC 2003 or BC 2004 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including the laboratory (BC 2001, 2002, 2003, 2004 or equivalent). Students who enrolled at Barnard before September 1992 are not required to take BC 2004.

Three Core Lecture Courses. One lecture course must be selected from each of the following three pairs:

1. BC 3302 *Molecular Biology* or BC 3310 *Cells and Tissues*
2. BC 3340 *Plant Physiology* or BC 3360 *Mammalian Physiology*
3. BC 3370 *General Ecology* or BC 3372 *Population and Community Ecology*

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed *General Biology*; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a co-requisite or pre-requisite; such requirements are specified in the course descriptions below. A student may count a Guided Research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of Guided Research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$40 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement as may those taken at other institutions, the latter with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) or complete a Guided Research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the *Research Seminar* (BC 3595). If a student completes a Guided Research project in lieu of the senior seminar, she may not also use a Guided Research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required (Chemistry BC 1601, BC 3328, and BC 3230).

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

Participation in a special project Biology BC 3591 or BC 3592, is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. A Guided Research project (BC 3591) may be used in lieu of a Senior Seminar or an Elective Laboratory to fulfill Biology major requirements; however, Guided Research that is to be counted toward the major requires concurrent enrollment in the Research Seminar (BC 3595). Only one term of Guided Research will receive credit toward the major. Intradepartmental projects are graded by letter grade or P*/D/F at the option of the faculty sponsor. Extradepartmental projects (BC 3592) receive only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 2001, 2002, 2003 and 2004 in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in *Physiological Psychology* (Psychology BC 1117 or BC 1119); although the course does not fulfill any Biology major requirement, the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003, BC 2004), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x

Revolutionary Concepts in Biology

An exploration of the major discoveries and ideas that have revolutionized the way we view organ-

isms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory

BIOLOGICAL SCIENCES

will develop these concepts and analyze biological diversity through a combined experimental and observational approach. (This course does not fulfill Biology major requirements or premedical requirements.) —P. Ammirato

Enrollment in laboratory sections limited to 16 students per section.

4.5 points. Lecture M W F 9:00-9:50

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 1002y

Contemporary Issues in Biology

An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular the virus responsible for AIDS. The second module considers human physiology and health, focusing on major health issues. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. (This course does not fulfill Biology major requirements or premedical requirements.) —H. Young, J. Mohler, B. O'Gara

Prerequisites: BIO BC 1001, or AP score of 4 or 5, or equivalent preparation and background. Enrollment in laboratory sections limited to 16 students per section.

4.5 points. M W F 9:00-9:50

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 1099x

Science and Scientists

Discussions led by research scientists from Barnard, Columbia, and other institutions. Topics include identifying research problems and conducting scientific research as well as recent conceptual and technical developments in science. —B. O'Gara

Enrollment limited to 16 first & second year students.
1 point. Th 2:10-4:00

BIO BC 2001y

Molecular, Cellular, & Developmental Biology

A detailed introduction to cellular and subcellular biology; cell structure and function; biochemical analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neurulation. (This course is suitable for fulfillment of premedical requirements.) —J. Poindexter

Prerequisites: BIO BC 1001 or AP score of 3 or higher or equivalent preparation.

3 points. M W F 9:00-9:50

BIO BC 2002x

Physiology, Ecology, and Evolutionary Biology

A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary events; systematics. —J. Chase-Brand

(This course is suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001 or AP score of 3 or higher or equivalent preparation.

3 points. M W F 9:00-9:50

BIO BC 2003x

Biodiversity Laboratory

A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations. —H. Young

(This course is suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001. AP score of 3 or higher. Enrollment limited to 16 students per section.

2 points. M 10:00-10:50 or F 1:10-2:00

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 2004y

Biological Experimentation Laboratory

A laboratory-based introduction to experimental biology; classic and modern approaches to the investigation of growth, development, reproduction, heredity, environmental influences, enzymes, and correlation between structure and function. Experimental design, practical techniques, and data interpretation. —N. Chu

(This course is suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001 or AP score of 3 or higher. Enrollment limited to 16 students per section.

2 points. M 10:00-10:50 or F 1:10-2:00

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 3200x

Genetics

Prerequisite: BC 2001, 2002, 2003, 2004 or the equivalent. One semester of chemistry is recommended.

3 points. Not offered in 1993-94.

BIO BC 3201x
Laboratory in Genetics

Prerequisite or corequisite: BC 3200 or the equivalent. Enrollment limited to 16 students per section. Recitation and laboratory.
2 points. Not offered in 1993-94.

BIO BC 3240x
Plant Biology

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance. —H. Young
Prerequisite: BC 2001, 2002, 2003, 2004 or the equivalent.
3 points. M W F 11:00-11:50

BIO BC 3241x
Laboratory in Plant Biology

Studies of the structure, ecology, and evolution of green plants. A survey of major groups from the aquatic forms, the algae, to the most complex terrestrial plants, the angiosperms, with emphasis on the relation of form to function. —H. Young
Prerequisite or corequisite: BC 3240. Enrollment limited to 16 students.
2 points. M 1:10-5:00

BIO BC 3250x
Invertebrate Zoology

Prerequisite: BC 2001, 2002, 2003, 2004 or the equivalent.
3 points. Not offered in 1993-94.

BIO BC 3251x
Laboratory in Invertebrate Zoology

Prerequisite or corequisite: BC 2001, 2002, 2003, 2004 or the equivalent. BC 3250 is recommended as a prerequisite or corequisite, but is not required. Enrollment limited to 24 students. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3252y
Animal Development

Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent; one year of chemistry (including one semester of organic chemistry) is recommended. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3260y
Vertebrate Zoology

Prerequisite: BC 2001, 2002, 2003 or the equivalent. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3280y
Animal Behavior

Introduction to animal behavior; physiological bases of behavior (sensory systems, neuro-physiology of behavior, appetitive and reproductive behavior), ethological approaches to behavior (communication, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, behavioral ecology, sociobiology). —J. Chase-Brand
Prerequisite: BC 2001, 2002, 2003, 2004 or one year of psychology.
3 points. M W 6:10-7:25

BIO BC 3302x
Molecular Biology

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development. —J. Mohler
Prerequisites: BC 2001 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.
3 points. M W F 9:00-9:50

BIO BC 3303y
Laboratory in Molecular Biology

Prerequisite or corequisite: BC 3302 or permission of the instructor. Limited to 18 students. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3305y
Project Laboratory in Molecular Biology

A project laboratory in molecular biology of *Drosophila*. Experiments will include isolation of phage, plasmid and genomic DNA; screening of DNA libraries; restriction mapping, Southern analysis and characterization of RNA transcripts. Project will characterize a particular unknown *Drosophila* sequence and RNA derived in vivo from that DNA. —J. Mohler
Prerequisite: BC 3302 or permission of the instructor; Enrollment limited to 12 students. Alternate years.
5 points. Tu Th 1:10-6:00

BIO BC 3307x
Project Laboratory in Plant Molecular Biology

Prerequisites: Bio BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. Upper level laboratory recommend BC3321, 3343 or 3341 and permission of the instructor. Enrollment limited to 16 students. Offered in alternate years.
5 points. Not offered in 1993-94.

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BIO BC 3310y

Cells and Tissues

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; electron microscopic studies of the structure of cell organelles; modern concepts of function. —P. Dudley
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent and one advanced biology course. A year of chemistry, including organic chemistry is required.
3 points. M W 11:00-12:15

BIO BC 3311y

Laboratory in Cell and Tissue Biology

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques. —P. Dudley
Prerequisite or corequisite: BC 3310 or the equivalent.
Enrollment limited to 16 students.
3 points. Tu 1:10-6:00

BIO BC 3320x

Microbiology

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology and metabolism; genetic mechanisms and inter-relationships in bacteria. Some aspects of applied microbiology, the role of microorganisms in natural processes, aspects of pathogenicity and immunity to disease. —J. Poindexter
Prerequisites: BC 2001, 2002, 2003, 2004 and one semester of organic chemistry.
3 points. M W F 11:00-11:50

BIO BC 3321x

Laboratory in Microbiology

Provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small, independent project. —J. Poindexter
Prerequisite or corequisite: BC 3320. Enrollment limited to 16 students. Recitation and laboratory
3 points. Tu 1:10-4:00 and Th 1:10-3:00

BIO BC 3340y

Plant Physiology

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence and death. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004 or the

equivalent, and one term of organic chemistry.
3 points. Alternate years. Tu Th 9:10-10:35

BIO BC 3341y

Laboratory in Plant Physiology

Prerequisite or corequisite: BC 3340. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3342y

Plant Development

Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3343y

Laboratory in Plant Development

Prerequisite or corequisite: BC 3342.
Enrollment limited to 16 students. Alternate years.
3 points. Not offered in 1993-94.

BIO BC 3360x

Mammalian Physiology

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, nervous and immune systems in animals; emphasis on higher vertebrates and humans. —J. Chase-Brand
Prerequisites: Three semesters of biology and one semester of organic chemistry.
3 points. M W 6:10-7:25

BIO BC 3361x

Laboratory in Animal Physiology

Physiographic recording of cardiac, respiratory and muscle function. Other exercises include enzyme kinetics, active transport and exercise physiology. —B. O'Gara
Prerequisite: BC 3360.
Enrollment limited to 16 students.
3 points. Recitation and laboratory W 1:10-6:00

BIO BC 3362y

Neurobiology

Structure and function of neural membranes; ionic basis of membrane potential and action potential; synaptic transmission and neurochemistry; sensory transduction and processing; reflexes and spinal cord physiology; muscle structure and function; neuronal circuitry; nervous system development. —B. O'Gara
Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent, and one semester of organic chemistry. BIO BC 3360 or PSY BC 1117 or BC 1119 is recommended.
3 points. Tu Th 10:35-11:50

BIO BC 3363y

Laboratory in Neurobiology

Introduction to techniques commonly used in current neurobiological research, including intracellular and extracellular recording of action potentials, neuroanatomical methods, and computer simulation of the action potential.—B. O’Gara

Prerequisites or corequisites: BIO BC 3362.

Enrollment limited to 16 students.

3 points. W 1:10-6:00

BIO BC 3370x

General Ecology

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment. —P. Dudley

Prerequisites: BIO BC 2001, 2002, 2003, 2004 or the equivalent. A course in general chemistry is recommended. Alternate years.

3 points. Tu Th 10:35-11:50

BIO BC 3372y

Population and Community Ecology

Prerequisites: BIO BC 2001, 2002, 2003, 2004 and any additional Biology course. Alternate years.

3 points. Not offered in 1993-94.

BIO BC 3373x

Laboratory in Ecology

Enrollment limited to 16 students. Alternate years.

3 points. Not offered in 1993-94.

BIO BC 3374y

Epidemiology

Principles of epidemiology and the application of epidemiologic methods to the study of human populations. Topics include study designs in epidemiology; determinants of exposure and outcome; analytic issues in acute, communicable and chronic disease epidemiology; introductory genetic, molecular and environmental epidemiology. —R. McChesney

Prerequisites: BC 2001, 2002, or the equivalent.

3 points. M W F 9:00-9:50

BIO BC 3380y

Evolution

A study of the process of evolution with emphasis on the mechanisms underlying evolutionary change. Topics include rates and direction of evolution, genetics of the evolutionary process, adaptive significance of sex and life history variation, coevolution. —H. Young

Prerequisites: BC 2001, 2002, 2003, 2004 or the equivalent.

3 points. M W F 10:00-10:50

BIO BC 3386x

Biometry

Application of quantitative approaches and statistical methods to the analysis of biological problems; data collection, descriptive statistics, probability theory, inferential statistics. Computer applications for data analysis. Examples to be drawn from contemporary biology.—R. McChesney

Prerequisites: BC 2001, 2002, 2003, 2004, college level algebra or the equivalent. Enrollment limited to 16 students.

4 points. M W F 10:00-10:50 plus two-hour required computer practicum to be arranged.

BIO BC 3590x, y

Senior Seminars in Biology

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.

4 points.

1. Plant Biotechnology

—P. Ammirato

Not offered in 1993-94.

2. Sociobiology

—J. Chase

Not offered in 1993-94.

3. Evolutionary Ecology

—P. Hertz

Not offered in 1993-94.

4. Molecular and Development Genetics

—J. Mohler

Autumn Tu 4:10-6:00.

5. Human Genome Project

—N. Chu

Spring M 2:10-4:00

7. Tropical Biology

—H. Young

Not offered in 1993-94.

8. Virus Structure and Propagation

—J. Poindexter

Not offered in 1993-94.

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9. Neurobiology

— B. O’Gara

Not offered in 1993-94.

10. Population Health

— R. McChesney

Autumn Th 4:10-6:00

BIO BC 3591x, y

Guided Research in Biology

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department Research Seminar (BC 3595) required.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty sponsor. *Corequisite:* BC 3595. *Graded with a letter grade or P*/D/F at the discretion of the faculty supervisor.*

4 points. Hours for research and seminar TBA.

BIO BC 3592x, y

External Research in Biology

Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. *1-4 points. Hours TBA. NOTE: BC 3592 does not receive credit toward the biology major. Graded P*/D/F.*

BIO BC 3593x-3594y

Research and Seminar in Biopsychology

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis.—Staff
Prerequisites: Six of the required courses for the biopsychology major.
4 points. Hours TBA.

BIO BC 3595 x,y

Research Seminar

Discussions of approaches to research, methods of scientific communication, and the presentation of scientific data, culminating in a paper and oral report of the results of a research project guided by a faculty sponsor. —Staff
Corequisite: BC 3591.
1 point. Hours TBA.

NOTE: Students may take any of the following courses as elective lectures or elective laboratories in fulfillment of the major requirement. Prior permission must be obtained from the Chair of the Barnard Biology Department before other Columbia courses can be used to fulfill the Biology major requirement.

BIO W 3002y

Introduction to Animal Structure and Function

—W. Bock

Prerequisites: One year each of biology and physics.
6 points. Lec: M W F 9:00-9:50

Lab: M, Tu or Th 1:10-5:00

M or W 6:10-10:00

BIO C 3046y

Project Laboratory in Eucaryotic Gene Expression

—T. Hazelrigg

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours TBA.

BIO C 3052x

Project Laboratory in Molecular Genetics

—A. Tzagoloff

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours TBA.

Biology-Chemistry BCH C 3501x

Biochemistry I: Structure and Metabolism

—T. Melese and G. Zubav

Prerequisites: C 1005 and one year of organic chemistry.

4 points. M W F 10:00, plus one hour recitation TBA.

BIOPSYCHOLOGY

1203 Altschul Hall

854-2437

Advisers: Bruce O’Gara (Biological Sciences), Christina L. Williams (Psychology)

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology, and students should maintain contact with the advisers in both departments. A major in Biopsychology provides a strong background in the behavioral sciences and is intended for students who plan to pursue a research career in Biopsychology or Behavioral/Cognitive Neuroscience or related disciplines. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year. Substitutions for required courses may be allowed with the approval of both advisers. To become a Biopsychology major, students must have completed at least 2 required courses in each discipline (Biology, Chemistry, and Psychology) before the beginning of their junior year with a B average in these courses.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

Students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE MAJOR

Psychology	BC 1001	<i>Introduction to Psychology</i>
Biology	BC 2001, 2002, 2003, 2004	<i>Introductory Biology</i>
Psychology	BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology	BC 3280	<i>Animal Behavior</i>
Biology/Psych	BC 3593-BC 3594	<i>Research and Seminar in Biopsychology</i>

One of the following courses:

Biology	BC 3386	<i>Biometry</i>
Psychology	BC 1101	<i>Statistics</i>

Two of the following courses; one must include the associated laboratory:

Psychology	BC 1117 or BC 1119	<i>Physiological Psychology</i>
Biology	BC 3360/3361	<i>Mammalian Physiology/Physiology Laboratory</i>
Biology	BC 3362/3363	<i>Neurobiology/Neurobiology Laboratory</i>

Two advanced courses selected from different categories below:

I.	Psychology BC 2154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3378	<i>Females and Males</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
II.	Biology BC 3370	<i>General Ecology</i>
	Biology BC 3372	<i>Population and Community Ecology</i>
	Biology BC 3380	<i>Evolution</i>
III.	Psychology BC 3164	<i>Perception and Language</i>
	Psychology BC 3375	<i>Organization of Movement</i>
	Psychology BC 3374	<i>Theories of Learning</i>
	Psychology BC 3380	<i>Fundamentals of Neuropsychology</i>
IV.	Biology BC 3200	<i>Genetics</i>
	Biology BC 3302	<i>Molecular Biology</i>
	Biology BC 3310	<i>Cells and Tissues</i>
	Biology-Chemistry C3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Professors: Sally Chapman (Chair), Leslie Lessinger

Assistant Professors: Elise Megehee, Marco Pagnotta, Daniel Robie, Shelley Weinstock

Director of General Chemistry Laboratories: Olympia Jebejian

Director of Organic Chemistry Laboratories: James Carter

Associates: Pamela Brown, Stephen DeMeo, Frances Feerst, Joan Jecewiz, Colette Levi, Meenakshi Rao, Noraini Yatim

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*. The laboratory courses, Chemistry BC 3333 and 3338, are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. Enrollment is limited in all laboratories: students must sign up during the preregistration period.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3335	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3340	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Chemistry BC 3271	<i>Inorganic Chemistry</i>
Chemistry BC 3365, 3368	<i>Advanced Chemistry Laboratory</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207	<i>Calculus-based Physics with Laboratory</i>
or V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	

Recommended: *Calculus III*.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3333	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3338	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207	<i>Calculus-based Physics with Laboratory</i> or
V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	
Biology BC 2001, 2002, 2003	<i>General Biology with Laboratory</i>
Biology-Chemistry C 3501	<i>Biochemistry I</i>
Biology-Chemistry C 3512	
or Biology BC 3302x	<i>Molecular Biology</i>
Chemistry BC 3355	<i>Biochemistry Laboratory Techniques</i>

A 3-point elective course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252. There is no minor in Biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x **General Chemistry I**

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques. —L. Lessinger, E. Megehee, D. Robie, O. Jebejian and associates

Prerequisite: Algebra (Math SAT score of 550 for entering students).

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M T W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00 or W or F 9:00-12:00. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing.

Laboratory fee \$28.

CHE BC 1602y **General Chemistry II**

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry. —D. Robie and L. Lessinger

Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M or F 1:10-2:00

Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee \$28.

CHE BC 1702y **General Chemistry II Laboratory**

Laboratory portion of Chemistry BC 1602.

—L. Lessinger

Prerequisite: General Chemistry I with laboratory.

Corequisite: General Chemistry II lectures and permission of the instructor.

2 points.

Recitation one afternoon M or F 1:10-2:00

Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee \$28.

CHE BC 3328y **Introductory Organic Chemistry Laboratory**

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound

preparation. —J. Carter and associates

Prerequisite: BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent.

Corequisite: BC 3230 or equivalent.

2.5 points. Lecture one afternoon M Tu W Th or F

1:00-1:50. Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30 or W or F 8:00-12:00.

Laboratory fee \$35.

CHE BC 3230y **Organic Chemistry I**

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry, and spectroscopy.

—M. Pagnotta

Prerequisite: BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

3 points. Lecture Tu Th 9:10-10:25

Problem section F 12:00

CHE BC 3231x **Organic Chemistry II**

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules. —M. Pagnotta

Prerequisite: BC 3230.

3 points. M W F 10:00-10:50

Problem section Tu 12:00

CHE BC 3232y **Intermediate General Chemistry**

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3252. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry. —E. Megehee

Prerequisites: BC 1601 and Organic Chemistry I.

BC 3230 may be taken as a corequisite with permission of the instructor. Optional parallel laboratory work: BC 3338. Course C 1404 is not an acceptable equivalent for BC 3232.

3 points. M W F 10:00-10:50

CHE BC 3333x

Modern Techniques of Organic Chemistry Laboratory

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.

—M. Pagnotta

Prerequisites: BC 3328 and BC 3230.

Corequisite: BC 3231.

3 points. Lecture Th 1:10-2:00

Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:00 or F 12:10-4:30. Laboratory fee \$35.

CHE BC 3335x

Modern Techniques of Organic Chemistry Laboratory — M. Pagnotta

Identical with BC 3333, but with a library problem, a short project, and additional preparative experiments. —M. Pagnotta

Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231.

5 points. Lecture Th 1:10-2:00

Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:30. Laboratory fee \$35.

CHE BC 3337x

Modern Techniques of Organic Chemistry Laboratory

Prerequisite: BC 3333x.

2 points.

Laboratory one afternoon. Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30

CHE BC 3333x + 3337x = 3335x.

CHE BC 3338y

Quantitative and Instrumental Techniques Laboratory

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computers is provided.

—S. Weinstock and O. Jebejian

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

3 points. Lecture Tu 1:10-2:00

Laboratory Tu 2:10-6:00 or Th 1:10-5:00.

Laboratory fee \$35.

CHE BC 3340y

Quantitative and Instrumental Techniques Laboratory

Identical with BC 3338, but with a greater variety and number of experiments. —S. Weinstock and O. Jebejian

Corequisite for students not majoring in chemistry or

biochemistry: BC 3232 or BC 3252.

5 points. Lecture Tu 1:10-2:00

Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00. Laboratory fee \$35.

CHE BC 3342y

Quantitative and Instrumental Techniques Laboratory

Prerequisite: BC 3338y.

2 points.

Laboratory one afternoon. Tu 2:10-6:00 or Th 1:10-5:00

Note: CHE BC 3338y + 3342y = 3340y

CHE BC 3252y

Introduction to Thermodynamics and Kinetics

Thermodynamics: introduction to the laws; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques. —D. Robie

Prerequisites: CHE BC 3231 and Calculus II. CHE 3338 or 3340 should be taken previously or concurrently.

4 points. Lecture M W F 10:00-10:50, F 12:00-12:50

CHE BC 3253x

Structure, Bonding, and Spectroscopy

Elementary quantum chemistry: exact solutions to the Schrödinger equation. The structure of atoms and molecules. Energy levels and spectra.

—S. Chapman

Prerequisites: CHE BC 3252, Calculus II, and Physics I (BC 1206, V1103, or C 1406).

4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3254y

Methods and Applications in Physical Chemistry

Radiochemistry. Applications of thermodynamics to real systems; activities, electrochemistry. Macromolecules. Transport properties. The kinetic theory of gases. Elementary statistical thermodynamics. —S. Chapman

Prerequisites: CHE BC 3253, Calculus II, and Physics II (BC 1207, V1104, or C 1407).

4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHEMISTRY

CHE BC 3271x

Introduction to Inorganic Chemistry

A systemic introduction to the structure and reactivity of inorganic compounds: bonding, reaction mechanisms, selected main group chemistry, transition metal chemistry, organometallics, clusters, catalysis, and bioinorganic chemistry. —E. Megehee
Prerequisites: CHE BC 3252, BC 3253 should be taken previously or concurrently.
3 points. Lecture Tu Th 9:10-10:25

CHE BC 3355x

Biochemistry Laboratory Techniques

Experience with fundamental techniques used in the isolation, characterization, and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods. —S. Weinstock.

Prerequisites: BC 3231, or one year of Organic Chemistry, BIO BC 2001, BC 2002, or equivalent, a total of four semesters of chemistry and biology laboratory, and Biology-Chemistry C 3501 or Biochemistry G 4021.
5 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 and Th 1:10-5:00
Laboratory fee \$45.

CHE 3357x

Biochemistry Laboratory Techniques

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors. —S. Weinstock
Prerequisites: Same as BC 3355.
3 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 or Th 1:10-5:00
Laboratory fee \$35.

CHE BC 3365x

Advanced Chemistry Laboratory

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications. —D. Robie
Prerequisites: BC 3252 and BC 3338 or equivalent.
3 points. Lecture Tu 12:00-12:50
Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00. Laboratory fee \$35.

CHE BC 3368y

Advanced Chemistry Laboratory

Experiments in various types of spectroscopy. —E. Megehee
Prerequisites: identical to BC 3365.
3 points. Lecture Tu 12:00-12:50
Laboratory W 1:10-5:00

CHE BC 3598x, 3598y

External Problems in Chemistry

Advanced individual research projects at other institutions. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading. Permission of the instructor (a Barnard professor who will act as liaison) is required.
4 points.

CHE BC 3599x, 3599y

Problems in Chemistry

Advanced individual research projects at Barnard. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Permission of the instructor required.
4 points. Eight hours by arrangement.
Laboratory fee \$35.

CHE BC 3901x-3902y

Senior Honors Thesis

Guided research in Chemistry or Biochemistry, under the sponsorship of a member of the department, leading to the senior thesis. Weekly seminar. —Staff
Enrollment restricted to seniors, by invitation of the department.
4 points. F 2:00-2:50 and 8 hours research TBA.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH C 3501x Biochemistry I

—T. Melese, J. Field and G. Zubay
4 points. M W F 10:00-10:50

Biology-Chemistry BCH C 3512y Biochemistry II

—R. Pollack
3 points. Hour TBA.

CHE C 3071y

Introduction to Inorganic Chemistry

—G. Parkin

3 points. Lecture Tu Th 9:10-10:25.

This course is equivalent to BC 3271x.

Chemistry CHE G 4103x

Advanced Inorganic Chemistry I

—R. Beer

4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4131x

Introductory Quantum Chemistry

—B. Bent

4.5 points. Tu Th 9:10-10:25

Chemistry CHE G 4147x

Advanced Organic Chemistry

—D. Horne

4.5 points. M W F 11:00-11:50

Chemistry CHE G 4141y

Organic Spectroscopy

—K. Nakanishi

4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4170x

Biophysical Chemistry

—A. McDermott

4.5 points. M W F 9:00-9:50

Chemistry CHE G 4172y

Bio-Organic Topics

—K. Nakanishi

4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4221x

Quantum Chemistry I

—R. Friesner

4.5 points. M W F 12:00-12:50

Chemistry CHE G 4230x

Statistical Thermodynamics

—R. Bersohn

4.5 points. Tu Th 9:10-10:25

Professors: Helene P. Foley (Chair), Lydia H. Lenaghan

Assistant Professor: Dirk Obbink¹

Other officers of the University offering courses in Classics:

Professors: Roger S. Bagnall, Alan D. E. Cameron¹, James R. Coulter, Suzanne Saïd, Leonardo Tarán, James E. G. Zetzel²

Associate Professors: Carmela Franklin, Mark J. Petrini

Assistant Professors: Sarah Mace, James B. Rives², Gareth D. Williams

Assistant Professor of Modern Greek: Karen van Dyck

¹Absent on leave 1993-94

²Absent on leave Autumn Term

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens*, *Helen*, and *Trachiniae* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one semester, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Elements of Greek Prose Style

Greek W 4105-W 4106

History of Greek Literature

and five others.

In Latin, this would be fulfilled by taking

Latin W 4139

Elements of Latin Prose Style

Latin W 4105-W 4106. *History of Latin Literature*
and five others.

In addition two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and five courses above the elementary level in the other.

Note: For the requirements for the major in Ancient Studies, see Ancient Studies.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses unless specially noted.

Classical Literature CLL V 3132x **Classical Myth**

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). —S. Saïd
3 points. M W 1:10-2:25 III H

Classical Literature CLL V 3123x **Greek Drama and Its Influences**

Evolution of various types of tragedy and comedy from the 5th century B.C.E. in Athens to the 1st century C.E. in Rome: relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays. —H. Foley
3 points. Tu Th 11:00-12:15 III H

Classical Literature CLL V 3135y **The Ancient Novel**

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Petronius, Apuleius, Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles, and saints' lives.
3 points. Not offered in 1993-94. III H

Classical Literature CLL W 4320y **Myth and Ritual**

Survey of classical myths and methods of approaching myth as means of cultural analysis,

through the application of anthropology, psychology, ethology, and gender studies to the study of myth and ritual. Use of comparisons from non-western cultures for the origins, organization, and transformation of myth and ritual. —D. Obbink
Prerequisite: CLL 3132 or permission of the instructor.
3 points. Not offered in 1993-94. I H

Classical Literature CLL W 4300y **The Classical Tradition**

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern authors. —M. Petrini
3 points. M W 6:10-7:25 III H

Classical Literature CLL W 4100y **The Reception of Antiquity**

An introduction to the heritage of classical antiquity, primarily Greece, in later European culture. Topics to be considered will include translation, iconography, the history of classical scholarship, architectural and artistic manifestations of the classical tradition, Greek tragedy on stage and on film, the images of Athens and Sparta.
3 points. Not offered in 1993-94 III H

Classical Civilization CLC V3145x **The Age of Pericles**

A study of the civilization and literature of 5th-century Athens, with special attention to the political institutions, monuments and major literary productions in the areas of theatre, rhetoric and history. —S. Mace
3 points. MW 4:10-5:25 III H

Classical Civilization CLC W4110

Gender and Sexuality in Ancient Greece

Examination of the ways in which gender and sexuality are constructed in ancient Greek society as represented in literature and art, with attention to scientific theory, ritual practice and philosophical speculation. Topics include conceptions of the body, erotic and homoerotic literature and practice, legal constraints, pornography, rape, and prostitution. —H. Foley
Sophomore standing or permission of the instructor.
 3 points. Not offered in 1993-94. III H

Classical Civilization CLC V4100y

The Handwritten Book

A study of how books were made in Antiquity and the Middle Ages: the physical characteristics of handwritten books (scripts, illustrations and illuminations, bindings, writing materials), the context in which books were created (monastic scriptorium, cathedral library, the early bookshops), and the audiences that determined their use and contents. —C. Franklin
 3 points. MW 4:10-5:25 III H

Classical Civilization CLC V 3158y

Women in Antiquity

3 points. Not offered in 1993-94 I H

Classical Civilization CLC V 3162x

Ancient Law

3 points. Not offered in 1993-94 III S

Classical Civilization CLC V 3164y

The Emperor Nero and the Roman World

Literature and society in the reign of Nero: the impact of the emperor on life and the arts. Readings mainly in primary sources, including Petronius, Seneca, and Tacitus. —L. Lenaghan
 3 points. M W 11:00-12:15 III

Classical Civilization CLC V 3175x

The World of Late Antiquity

3 points. Not offered in 1993-94. III

Classical Civilization CLC V 3160y

The Age of Augustus

3 points. Not offered in 1993-94.

Classical Civilization CLC V 3250y

Religions in the Roman Empire

3 points. Not offered in 1993-94. III

Ancient Studies ANC W 4000x

Introduction to Ancient Studies

This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. In 1992-93 the topic will be the society, government and culture of late antiquity (ca. 275-563 C.E.). Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor. —R. Bagnall
 3 points. W 6:10-8:00 III

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V 1102y

Elementary Full-Year Course

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the *Apology*, will be read.

1101 is prerequisite to 1102. No credit is given for 1101 unless 1102 is completed.

4 points.

x: Sec. 1 M W F 11:00-12:15 —S. Mace

Sec. 2 M W F 6:10-7:25

y: Sec. 1 M W F 11:00-12:15

Sec. 2 M W F 6:10-7:25

GRE V 1121x, y

Intensive Elementary Course

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare the student to enter third semester Greek.

—x: Staff y: S. Mace

4 points. M W F 11:00-12:15

GRE V 1201x

Greek Literature: Prose and Poetry

Selections from Attic prose and early elegiac poetry. There will be weekly assignments to review forms and syntax. —J. Coulter

Prerequisite: V 1101-V 1102 or V 1121.

4 points. M W 1:10-2:25, F 1:10-2:00 H

GRE V 1202y

Selections from Homer

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer. —H. Foley

Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.

4 points. M W 11:00-12:15, F 11:00-11:50 H

GRE V 1203x

New Testament

Prerequisite: V 1101-V 1102 or V 1121.

4 points. Not offered in 1993-94 H

GRE V 1221y

Intensive Intermediate Greek

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*. —L. Tarán

Prerequisite: V 1101-V 1102, or V 1121.

4 points. M W F 9:10-10:25

H

GRE V 3305y

Tragedy

A close reading of two Trojan plays of Euripides, *Hecuba* and *Helen*. —J. Coulter

Prerequisites: V 1201, 1202, or their equivalents.

3 points. M W 9:10-10:25

H

GRE V 3306y

Historians

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years.

3 points. Not offered in 1993-94

H

GRE V 3307y

Comedy

Prerequisites: V 1201, 1202 or their equivalents.

3 points. Not offered in 1993-94.

H

GRE V 3308x

Philosophy

Selections from Aristotle, *Nichomachean Ethics*.

—L. Tarán

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years.

3 points. Tu Th 10:35-11:50

H

GRE V 3309x, 3310y

Selections from Greek Literature, I, II

Content of course changes each year, it may be taken in consecutive years.

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Not offered in 1993-94.

H

GRE V 3997x, GRE V 3997y

Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff

Permission of the chairman of the department required.

3 points. Hours TBA.

GRE V 3998x, GRE V 3998y

Supervised Research in Greek Literature

Program of research in Greek literature, with the composition of a paper embodying results. —Staff

Permission of the chairman of the department required.

3 points. Hours TBA.

Greek W 4006y

Greek Historians

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Not offered in 1993-94.

H

GRE W 4009y

Selections from Greek Literature: Prose

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1993-94: Selections from Xenophon. A study of various aspects of Xenophon's writing: history (extracts from the *Hellenica*), philosophy (extracts from the *Memorabilia*), politics (extracts from the *Constitution of Athens*) and the historical novel (*Cyropaedia*). —S. Said

Prerequisites: V 1201, 1202, or their equivalents.

3 points. Tu Th 9:10-10:25

H

GRE W 4010x

Selections from Greek Literature: Poetry

Content of course changes each year; it may be taken in consecutive years. Topic for 1993-94:

Greek lyric. A study of archaic Greek lyric, including its iambic, elegiac, monadic, and choral lyric forms. —S. Mace

Prerequisites: V 1201, 1202, or their equivalents.

3 points. M W 2:40-3:55

H

GRE W 4106x-GRE 4105y

History of Greek Literature

Lectures based on extensive readings in Greek literature from Homer to the fourth century C.E.

—x: S. Mace; y: J. Coulter

Prerequisite: At least two terms of Greek beyond V 1201, V 1202.

4 points. M 4:10-6:00, W 4:10-5:00

H

GRE W 4139x

Elements of Greek Prose Style

Intensive review of Greek syntax. Writing of sentences and connected passages in Greek. —L. Tarán

Prerequisite: At least four terms of Greek or equivalent.

3 points. Tu Th 9:10-10:25

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y; 1102x, 1101y

Elementary Full-Year Course

V 1101: Grammar, composition and reading. V

1102: Complete review of grammar and syntax; emphasis on representative readings. —Staff

V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V

1102 is completed.

4 points.

V 1101x Sec. 1 M W F 11:00-12:15

Sec. 2 M W F 9:10-10:25

CLASSICS

Sec. 3 M W F 6:10-7:25
 V1102x Sec. 1 M W F 11:00-12:15
 V 1101y Sec. 1 M W F 11:00-12:15
 Sec. 2 M W F 6:10-7:25
 V 1102y Sec. 1 M W F 11:00-12:15
 Sec. 2 M W F 9:10-10:25
 Sec. 3 M W F 6:10-7:25

LAT V 1121x, y **Intensive Elementary Course**

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin.

—x: L. Lenaghan; y: Staff

4 points. M W F 11:00-12:15

LAT V 1201x, y **Latin Literature: Prose**

Selections from Cicero or Sallust.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Sec. 1 M W 9:10-10:25; F 9:10-10:00

Sec. 2 M W 6:10-7:25; F 6:10-7:00

y: M W 1:10-2:25, F 1:10-2:25

LAT V 1202x, y **Latin Literature: Poetry**

Selections from Vergil, Aeneid, or Ovid, Metamorphoses.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Sec. 1 Tu Th 9:10-10:25, F 1:10-2:00 —TBA

Sec. 2 M W 11:00-12:15, F 11:00-11:50 —TBA

y: Sec. 1 M W 1:10-2:25; F 1:10-2:00 —L. Lenaghan

Sec. 2 M W 6:10-7:25; F 6:10-7:00 —TBA

LAT V 3012x **Lyric Poetry**

Selections from Catullus' polymetric poems and epigrams and from Horace's Odes and Epodes.

The course combines literary analysis with work in grammar and metrics. —M. Petrini

Prerequisite: V 1201, 1202 or four years of high school Latin.

3 points. M W 11:00-12:15

LAT V 3033y **Medieval Literature**

Survey of representative late Latin and medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. —C. Franklin

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 1:10-2:25

LAT V 3305x **Historians**

Prerequisite: Course V 3012 or the equivalent.

Alternate years.

3 points. Not offered in 1993-94.

H

LAT V 3306x **Roman Satire**

Readings from Horace and Juvenal.

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1993-94.

H

LAT V 3307y **Elegiac Poetry**

Selected readings from Tibullus, Propertius, and Ovid. —M. Petrini

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Tu Th 11:00-12:15

H

LAT V 3308x **Philosophy**

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1993-94.

H

LAT V 3309y **Selections from Latin Literature, I**

Content of course changes from year to year; it may be taken for credit in consecutive years.

Prerequisite: V 3012 or the equivalent.

3 points. Not offered in 1993-94.

H

LAT V 3310y **Selections from Latin Literature, II**

Content of course changes from year to year; it may be taken for credit in consecutive years.

—M. Petrini

Prerequisite: V 3012 or the equivalent.

3 points. M W 2:40-3:55

H

LAT W 4008y **Cicero**

Selections from Cicero, with attention to his literary style in varying contexts. —J. Zetzel

Prerequisite: V 3012 or the equivalent.

3 points. M W 9:10-10:25

H

LAT W 4009x **Selections from Latin Literature: Prose**

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1993-94: Readings from the letters of Cicero, Horace, Ovid, Seneca, and Pliny to demonstrate the possibilities of the genre. —L. Lenaghan

Prerequisite: V 3012 or the equivalent.

3 points. M W 9:10-10:25

H

LAT W 4010y

Selections from Latin Literature: Prose

Content of course changes each year; it may be taken in consecutive years.

Prerequisite: V 3012 or the equivalent.

3 points. Not offered in 1993-94.

H

LAT V 3997x, y

Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff

Permission of the chairman of the department required.

3 points. Hours TBA.

LAT V 3998x, y

Supervised Research in Latin Literature

A program of research in Latin literature with the

composition of a paper embodying results. —Staff

Permission of the chairman of the department required.

3 points. Hours TBA.

LAT W 4105x, 4106y

History of Latin Literature

Lectures based on extensive readings in Latin lit-

erature from the beginning to the fourth century

C.E. —x: M. Petrini, y: G. Williams

Prerequisite: At least two terms of Latin beyond V 3012.

4 points. M 4:10-6:00, W 4:10-5:00

H

LAT W 4139x

Elements of Latin Prose Style

Intensive review of Latin syntax. Writing of sentences

and connected passages in Latin. —G. Williams

Prerequisite: At least four terms of Latin or the equivalent.

3 points. Tu Th 10:35-11:50

LAT W 4152x

Medieval Latin

A survey of Latin prose of late Antiquity and the

Middle Ages. Among the authors studied will be

Augustine, Cassiodorus, Bede, Einhard, John of

Salisbury, Bonaventure. —M. Lafferty

Prerequisite: Permission of the instructor.

3 points. M W 4:10-5:25

H

GRADUATE COURSES

Certain graduate courses given in the University

are open to qualified majors with the consent of

the chairman and the major adviser. The courses

are described in the Bulletin of the Graduate

School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y

Elementary Full-Year Course

Introduction to Demotic Greek; emphasis on

both speaking and writing; basic grammar and

syntax; pattern practice reinforced by laboratory

attendance; easy reading. —K. van Dyke

No credit is given for V 1101 until V 1102 is completed.

4 points. Tu Th 4:10-6:00

MGR V 1201x

Intermediate Course, I

Study of more complex and idiomatic Greek

through a variety of readings, including selec-

tions from Kazantzakis' *Report to Greco* and short

stories by Myrivilis and Venezis; grammar and

syntax review; conversation; short weekly com-

positions. —K. van Dyke

Prerequisite: V 1101-V 1102 or the equivalent.

4 points. Tu Th 1:10-2:25

MGR V 1202y

Intermediate Course, II

Selected readings from modern Greek literature,

both poetry and prose, annotated and presented

in order of difficulty, used as a basis for discus-

sion and composition. Poems by Solomos,

Palamas, Cavafy, Seferis; short stories and essays

by Theotokas, Terzakis and others. The improve-

ment of the student's language skills is still a pri-

mary goal. —Instructor TBA.

Prerequisite: V 1201 or permission of the instructor.

4 points. Tu Th 1:10-2:25

H

MGR V 3305y

Censorship and Writing

Literary texts connected to the military dictator-

ship of 1967-74, with emphasis on the use and

functions of parody. Readings include speeches,

resistance songs, poetry of Ritsos, Seferis, and

Sinopoulos as well as fiction and newspaper

articles. —K. van Dyke

Prerequisite: V 1202 or permission of the instructor.

3 points. Tu Th 10:35-11:50

H

MGR 3306x

Orality and Literacy: 19th-and 20th-Century Literature

A retrospective examination of modern Greek liter-

ature, examining questions of canon formation,

oral and written culture, and literature as a national

institution. Contemporary literature and theory will

be linked to earlier works; authors studied include

Mastoraki, Laina Ritsos, Seferis, Cavafy, Viziinos,

Papadiamantis, and Solomon. —K. van Dyke

Prerequisite: V 3305 or permission of the instructor.

3 points. Tu Th 10:35-11:50

H

University Professor Emeritus: Samuel Eilenberg, Theodore R. Bashkow

Professors: Theodore R. Bashkow (Emeritus), Zvi Galil (Chair), Jonathan L. Gross, Mischa Schwartz (Electrical Engineering), Thomas E. Stern (Electrical Engineering), Joseph F. Traub, Stephen H. Unger, Omar Wing (Electrical Engineering), Henryk Wozniakowski

Associate Professors: Peter K. Allen, Terrance E. Boulton, Steven K. Feiner, Gail E. Kaiser (Program Consultant), John R. Kender, Gerald Q. Maguire Jr., Kathleen R. McKeown, Salvatore J. Stolfo, Yechiam Yemini

Assistant Professors: Daniel J. Duchamp, Shree Nayar, Steven M. Nowick, Kenneth A. Ross

Senior Lecturer: Newcomb Greenleaf

Lecturers: Athanasios M. Tsantilas, Michael K. van Biema

Adjunct Professor: Bruce Gilchrist

Adjunct Lecturers: David Bantz, Alexander Pasik, Ajit Singh, Mark Squillante, C. J. Tan, Alexander Thomassian, George Wolberg

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper-level courses is available in topics such as artificial intelligence, combinatorial methods, computational complexity and the analysis of algorithms, computer architecture and VLSI design, computer communications, computer graphics, computer vision, databases, distributed computing, expert systems, mathematical models for computation, natural language processing, programming environments, and robotics. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

Academic computing needs are met by University computing facilities which include SUN and IBM mainframes and microcomputers. Qualified majors often serve as consultants at the Computer Center.

In addition to course work, students sometimes assist faculty members on research projects.

The department has well-equipped lab areas for research in robotics, computer vision, distributed and mobile computing, computer graphics, image processing, programming environments, and parallel architectures. The computer facilities include a shared infrastructure of SUN file servers (both multi-processors and single processors), a student research lab of workstations and various x display servers, and a department-wide ethernet (with numerous subnets), plus a research project infrastructure with additional servers, and numerous SUN, HP, IBM and NeXT robotic arms, a UTAH-MIT dextrous hand, an Aspex PIPE (an 8-stage parallel pipelined, low-level image processor), HP TurboSRX and TurboVRX 3D shaded graphics workstations with true 3D input (via a VPL DataGlove hand-tracing system) and a StereoGraphics stereo display system, a locally built see-through head-mounted display, a high-resolution color scanner and film recorder, the locally developed 1023-processor DAD02

and 15-processor DAD04 tree-structured computers, experimental packet-radio-based workstations, additional network gateways, an HP 6300 optical jukebox, and a Kurzweil 5100 omnifont page scanner. The department network is gatewayed to a campuswide backbone network as well as to Internet (through NYSERNET and BITNET) and USENET. The research facility is supported by a full-time staff of professional systems programmers and engineers, aided by many part-time student technicians.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. First year students considering a Computer Science major should take W 1007. By taking an introductory course early in their college years, non-majors are able to use the computers more effectively in their upper-level studies in other departments.

The primary programming languages for the undergraduate majors are C and LISP, and students are expected to become bilingual at an early stage. The language for the introductory course (CS-W 1007) is the Scheme dialect of LISP. The primary language for CS-W 3137 is C, and students without a knowledge of C should take the accelerated section of the 1 point C course (CS-W 3101-02) concurrently. A thorough knowledge of C is required for CS-W 3152. A knowledge of LISP required for CS-W 4701.

NOTE: Students majoring or minoring in Computer Science should take Computer Science W 1007 and W 3137, rather than Computer Science W 1003 and W 3131. Students who have taken Computer Science W 1003 before Autumn 1989 or W 3131 before Autumn 1990 may still count these other courses toward a major or minor, or use them to satisfy the prerequisites of advanced courses.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 15 courses are required for the major.

W 1007	<i>Introduction to Computer Science</i> (preferably in the first year)
Mathematics	<i>Calculus I and II</i> (preferably in the first year)
W 3137	<i>Data Structures for Computer Science</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
Mathematics V 2010	<i>Linear Algebra</i>
Stat-IEOR W 4150 or W 3261	<i>Introduction to Probability & Statistics</i> <i>Computability and Models of Computation</i>
W 3823	<i>Digital Logic</i>
W 3824	<i>Computer Organization, I</i>
W 4115	<i>Programming Languages and Translators</i>
W 4701	<i>Artificial Intelligence</i>

and an approved choice of two additional upper-level computer science courses.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3137, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

COURSES OF INSTRUCTION

CSC W 1001x, y

Introduction to Computers

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. Taught in the Scheme dialect of LISP. —N. Greenleaf
3 points. Hours TBA.

CSC W 1003x, y

Introduction to Computer Programming in C

Intended primarily for engineering students. General introduction to computer programming. Structured program design. C. —Instructor TBA.
3 points. Hours TBA.

CSC W 1005x, y

Introduction to Computer Programming in Fortran

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN. —J. Helm
3 points. M W 11:00-12:15

CSC W 1007x, y

Introduction to Computer Science

An honors-level introduction to computing, intended primarily for students considering a major in computer science. The structure and interpretation of computer programs. Building abstractions with data and procedures. Taught in the Scheme dialect of LISP (no previous knowledge of LISP assumed). —N. Greenleaf
3 points. Hours TBA.

CSC W 3101x,y

Programming Languages

Introduction to a programming language. Each section is devoted to a specific language. Intended only for those who are already fluent in at least one programming language. Sections may meet for one hour per week for the whole semester or three hours per week for the first third of the semester. May be repeated for credit if different languages are involved. —Instructors TBA.

1 point. Sec. 1 (C) Tu 6:10-7:25

Sec. 2 (C) (5 weeks only) Tu Th 6:10-7:25

Sec. 3 (LISP) Th 6:10-7:00

CSC W 3107x,y

Structure and Interpretation of Computer Programs

Structure and interpretation of computer programs. Building evaluators and compilers for LISP expressions. Designing register machines. Garbage collecting. Logic programming and query systems. —N. Greenleaf
Prerequisite: W 1007.
3 points. Hours TBA.

CSC W 3131x, y

Data Structures in C

Data types and structure: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management, rudiments of the analysis of algorithms. Not intended for computer science majors. Taught in C. Prerequisite: W 1003 or knowledge of C.
3 points. x: M W 6:10-7:25
y: Hours TBA.

CSC W 3137x, y

Data Structures for Computer Science

Data types and structures: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs. Programming techniques for processing such structures: sorting and searching, hashing, garbage collection. Storage management. Rudiments of the analysis of algorithms. A knowledge of Scheme is assumed and students will be expected to learn C. —Instructor TBA.
Prerequisite: W 1007. Corequisite: W 3203.
3 points. Hours TBA.

CSC W 3152x, y

Software Design Laboratory

It is strongly recommended that this be taken concurrently with W 3232. Advanced programming in C. Programming methodology including structured programming, data abstraction, top-down design, and modular decomposition. Programming and debugging tools and strategies. An introduction to building large software systems. Substantial programming is required. This course is a prerequisite for all 4000-level software courses. —Instructor TBA.

Prerequisite: CSC W 3137.

3 points. Tu Th 11:00-12:15

CSC W 3203x, y

Discrete Mathematics: Introduction to Combinatorics and Graph Theory

Mathematical induction, counting arguments (permutations and combinations, elementary finite probability, generating functions, recurrence relations, inclusion-exclusion principle), and topics in graph theory (isomorphism, planarity, circuits, trees, and directed graphs). —J. Gross

Prerequisite: Any introductory programming course.
3 points. Hours TBA.

CSC W 3205x, y

Introduction to Discrete Structures

Sets, relations and functions, logic, algebraic structures. Applications to computing. —J. Gross
3 points. Hours TBA.

CSC W 3210x

Computational Aspects of Time Dependent Processes

An introduction to computational aspects of mathematical models of time varying phenomena. Both discrete and continuous models of time varying phenomena. Both discrete and continuous models including linear and nonlinear first order and higher order and systems of equations will be included. Theoretical and numerical aspects will be emphasized. Quantitative issues such as chaos and stability will also be covered. Applications include genetics, finance, physical systems, computer systems, simulation, and Markov modeling. —T. Boulton
Prerequisites: Two semesters of calculus, and proficiency in a programming language.
3 points. Hours TBA.

CSC W 3251y

Scientific Computation

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed. —J. Traub
Prerequisites: Calculus I and II, MAT V 2010, EGM E 3101.
3 points. Tu Th 2:40-3:55

CSC W 3261y

Computability and Models of Computation

Regular languages, finite automata, regular grammars, non-determinism, regular expressions. Context-free languages, push-down automata, context-free grammars, parsing. Turing machines, general grammars, computability, the Chomsky hierarchy, the Church-Turing thesis, other models of computation.

Prerequisite: W 3137 and W 3203.
3 points. Hours TBA.

CSC W 3823x

Digital Logic

Number representation, boolean algebra, combinatorial logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic functional circuits, sequential circuits, clocking.

Prerequisite: Any introductory programming course.
3 points. Hours TBA.

CSC W 3824y

Computer Organization I

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O. —S. Unger
Prerequisite: CSC W 3823.
3 points. Hours TBA.

CSC W 3995x or y

Special Topics in Computer Science

Special topics arranged as the need and availability arises. Topics are usually offered on a one-time basis. Since the content of this course changes each time it is offered, it may be repeated for credit.

Permission of the instructor required.
3 points. Hours TBA.

CSC W 3998x, y

Undergraduate Projects in Computer Science

This course may be repeated for credit but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design. —Staff

Prerequisite: Approval by a faculty member who agrees to supervise the work.
Up to 3 points. Hours TBA.

CSC W 4111x **Database Systems**

Introduction to database systems: data modeling; logical design of relational databases; data definition and data manipulation languages; storage and indexing techniques; concurrency control; recovery; query processing; security and integrity; system administration; essentials of distributed operation. —K. Ross
Prerequisite: CSC W 3152, W 3232, W 3824 or permission of the instructor.
3 points. Hours TBA.

CSC W 4115x **Programming Languages and Translators**

Covers language design issues; syntax; the translation process; names, locations and values; control structures; data types; input and output; procedures and parameters; nesting and scope; definition of new data types; dynamically varying structures; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required. —G. Kaiser
Prerequisite: W 3152, W 3232, W 3261, W 3824, or permission of the instructor.
3 points. Hours TBA.

CSC W 4118x **Operating Systems, I**

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management I/O, and file systems. Case study of the UNIX operating system. A programming project will be required. —D. Duchamp
Prerequisites: W 3152, W 3232, W 3824, or permission of the instructor.
3 points. Hours TBA.

CSC W 4119y **Computer Networks**

The design of system software to support computer networks, layered protocol architecture, distributed operating systems. A programming project will be required. —Y. Yemini
Prerequisite: W 4118.
3 points. Hours TBA.

CSC W 4156x **Software Engineering**

Design and implementation of software systems. The software life cycle: requirements definition, specification, design, implementation, testing, and maintenance. User interfaces. Documentation. Management. Verification. A substantial group project is required. —S. Feiner
Prerequisite: W 3152, W 3232 or permission of the instructor. *Recommended preparation:* W 4118.
3 points. Hours TBA.

CSC W 4160x, y **Computer Graphics**

An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3D shapes, object modeling and hierarchy, color, and animation. Advanced topics as time permits. Emphasis is on implementation of important graphics algorithms. —S. Feiner
Prerequisites: W 3232, and either W 3152 or W 4156. *Previous familiarity with C and UNIX is recommended.*
3 points. M W 5:40-6:55

CSC W 4201x, y **Theory of Complexity**

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations. —T. Tsantilas
Prerequisite: W 3261 or permission of the instructor.
3 points. Hours TBA.

CSC W 4203y **Graph Theory**

General introduction to graph theory, emphasizing algorithms. Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, bipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits. —J. Gross
Prerequisite: W 3203.
3 points. Hours TBA.

CSC W 4205x **Combinatorial Theory**

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits. —J. Gross
Prerequisites: CSC W 3203 and a course in calculus.
3 points. Hours TBA.

CSC W 4231x
Analysis of Algorithms I

CSC E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms; counting and asymptotic evaluation analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations. Fourier transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models; worst-case and average behavior of algorithms; Diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and Khacian methods; average behavior of the simplex method. Other topics as time permits. —Z. Galil
Prerequisites: W 3137, W 3203.
3 points. M W 11:00-12:15

CSC W 4241x
Numerical Algorithms and Complexity I

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y. —J. Traub
Prerequisite: Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.
3 points. Tu Th 2:40-3:55

CSC W 4701x, y
Artificial Intelligence

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching; depth-first breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta, predicate calculus, resolution theorem-proving; Horn clause theorem-provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits. —S. Stolfo
Prerequisite: W 3137.
3 points. Hours TBA.

CSC W 4705x, y
Natural Language Processing

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended.
—K. McKeown
Prerequisite: W 3137.
3 points. Hours TBA.

CSC W 4721x, y
Knowledge-based Expert Systems

Focus is on current methods of implementing AI expert systems. Topics covered include the structure of problem-solving engines and knowledge bases for expert performance; problem taxonomies; methods to automate the acquisition of human experiential knowledge, methods to automate the explanation of problem-solving behavior; examples of existing expert systems and their application areas. —S. Stolfo
Prerequisite: W 4701.
3 points. Hours TBA.

CSC W 4731x
Computer Vision

The fundamentals of computer vision, viewed from an artificial intelligence perspective. Image formation. Low-level processing: edge detection, stereo, shape from shading, optical flow. Middle-level processing: line and curve aggregation, region growing, texture, image sequences. High-level processing: shape representations in two and three dimensions. Image understanding: knowledge bases, matching, inference, and planning. Other topics as time permits. Course programming project required. —S. Nayar
Prerequisite: W 4701 or permission of the instructor.
3 points. Hours TBA.

CSC W 4733x, y
Computational Aspects of Robotics

Introduction to robotics from a Computer Science perspective. Topics include coordinate frames and kinematics, computer architectures for robotics, integration and use of sensors, world modeling systems, design and use of robotic programming languages, and applications of artificial intelligence for planning, assembly and manipulation.
—P. Allen
Prerequisite: W 4701.
3 points. Hours TBA.

CSC W 4901x

Projects in Computer Science

A second level independent project involving laboratory work, computer programming, analytical investigation or engineering design. May be repeated for credit, but not for more than a total of 3 points of degree credit.

Prerequisite: Approval by a faculty member who agrees to supervise the work.

CSC W 4995x, y

Special Topics in Computer Science

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit. — Instructor to be announced.

Permission of the instructor required.

3 points. Hours TBA.

CSC W 4996x, y

Special Topics in Computer Science

A continuation of Course W 4995, when the special topic is to be offered over two semesters.

— Instructor to be announced.

Permission of the instructor required.

3 points. Hours TBA.

DANCE

204 Barnard Hall Annex

854-2995

Professor: Sandra Genter

Senior Lecturer: Janet Soares (Chair)

Assistant Professor: Ellen Graff

Senior Associate: Janis Ansley-Ungar

Adjunct Professor: Deborah Jowitt

Associates: Katiti King, Elena Kunikova, Francine Landes, Gloria Marina, Cathy McCann

Technical Director for Dance: Rhonda Rubinson

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill and originality in choreography, and critical understanding of the art of dance as a part of history and culture. Emphasis is placed on performing opportunities in ballet and modern idioms each semester, and on the encouragement of each student's growth as a creative artist.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach, choreograph, and present symposia and workshops throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Students accepted as majors may take certain courses in the Dance Division of Juilliard School, and also outside classes with artist teachers in conjunction with their dance study within the department. Barnard College is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of 13 courses are required for the dance major. In addition, majors normally take two technique courses per semester. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	<i>Kinesiology</i>
DAN BC 2562	<i>Movement Analysis</i>
DAN BC 2563	<i>Dance Composition: Form</i>
DAN BC 2564	<i>Dance Composition: Content</i>
DAN BC 2565	<i>History of Dance I: Multi-Cultural Perspectives</i>
DAN BC 2566	<i>History of Dance II: Renaissance to Present</i>
DAN BC 3571	<i>Performance Styles</i>
DAN BC 3572	<i>Repertory in Production</i>
DAN BC 3591	<i>Senior Seminar for Dance</i>

II. Two courses elected from the following:

DAN BC 2555	<i>Ensemble Dance Repertory</i>
DAN BC 2567	<i>Fundamentals of Music for Dancers</i>
DAN BC 3576	<i>Dance Criticism</i>
DAN BC 3574	<i>Seminar on Contemporary Choreographers and Their Works</i>
DAN BC 3577	<i>Performing the Political</i>

DANCE

III. Two non-department courses to be elected in pursuit of the historical and cultural contexts of dance which will fulfill both the major and distribution requirements. Courses in philosophy of art, cultural history, art, music and theater history, anthropology, and religion, may be chosen with permission of department chair. One of these will fulfill distribution as well as major requirements. ARS BC 3031 *Imagery and Form in the Arts* is highly recommended.

IV. A minimum of six points of dance technique courses.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 2561x

Kinesiology

Focus on physical sciences that relate to human movement, with an emphasis on functional anatomy. Topics include skeletal structure, physics of dance, muscular balance, and improving movement potential. —S. Genter
3 points. M W 2:40-3:55

DAN BC 2562y

Movement Analysis

Study of the nature of human movement concentrating on the basic elements of space, time, and body dynamics through readings, viewings, experimentation, and discussion. Learning descriptive movement language and analytical skill from the concepts of Rudolph Laban and other movement theorists. Includes written and performance projects. —E. Graff
3 points. M W 1:10-2:25

DAN BC 3571x

Performance Styles

The study of solo excerpts from classical and modern repertory and the presentation of individual research in both written and performance format. Emphasis will be placed on the role that the dancer must play to facilitate the realization of the choreographer's concept. —J. Ansley-Ungar
3 points. Tu Th 10:35-11:50

DAN BC 3572y

Repertory in Production

3 points. Not offered in 1993-94.

DAN BC 2563x

Dance Composition: Form

The study of choreography as a creative art. The development and organization of movement materials according to formal principles of composition in solo and duet forms. Applicable to all styles of Dance. —J. Soares
3 points. M W 1:10-2:25

DAN BC 2564y

Dance Composition: Content

Continued study of choreography as a communicative performing art form. This semester of dance making focuses on the exploration of ideas and meaning. The emphasis is placed on the development of personal style as an expressive medium, and unity of style in each work. Group as well as solo compositions will be assigned. —J. Soares
3 points. Tu Th 1:10-2:25

DAN BC 2565x

History of Dance I:

Multi-Cultural Perspectives

Investigates the multi-cultural perspectives of Dance in major areas of culture in the world to include African, Asian, Hispanic, Indian, Middle-eastern, as well as dance history of the Americas through reading, writing, viewing and discussion of a wide range of resources. These include film, original documents, demonstration and performance. —E. Graff
3 points. Tu Th 1:10-2:25

II H

DAN BC 2566y**History of Dance II: Renaissance to Present**

Focuses on the history of theater Dance forms originating in Europe and America from the Renaissance to the present. Includes reading, writing, viewing and discussion of sources such as film, text, original documentation, demonstration and performance. —E. Graff

3 points. Tu Th 10:35-11:50

III H

DAN BC 2567y**Fundamentals of Music for Dancers**

3 points. Not offered in 1993-94.

DAN BC 2555y**Ensemble Dance Repertory**

3 points. Not offered in 1993-94.

DAN BC 3574x**Seminar on Contemporary Choreographers and Their Works**

Choreographic methods, structures, themes and vocabulary will be examined in seminar discussions. Sources include assigned readings, film/video and interviews with guest artists. Students attend live performances, write short analytic papers and present a final research project. —S. Genter

3 points. Tu Th 2:40-3:55

DAN BC 3576y**Dance Criticism**

Intensive practice in writing about dance. Readings drawn from 19th- and 20th-century dance criticism. Observation includes weekly performances and classroom videotape sessions.

—D. Jowitt.

3 points. Tu 4:10-6:00

DAN BC 3577x**Performing the Political: Embodying Change in 20th-Century American Performance**

3 points. Not offered in 1993-94.

III H

DAN BC 3591x**Senior Seminar in Dance**

Research and scholarly writing in chosen topics relating to dance. Methods of investigation will be drawn from prominent archival collections and personal interview, as well as other resources. Papers will be formally presented to the Dance Department upon completion. —J. Soares

4 points. M 10:30-12:30

BC 3592x, y**Senior Project: Research for Dance**

Independent study for research and writing (35-50 page thesis required). —Staff

3 points. Hours TBA.

BC 3593x, y**Senior Project: Repertory for Dance**

Independent study for preparing and performing repertory works in production to be presented in concert. —Staff

3 points. Hours TBA.

DAN BC 3099x, y**Independent Study —Staff**

1-4 points.

DANCE TECHNIQUE COURSES

Level I courses receive a pass/fail grade and have no prerequisite. All others will receive a letter grade and require a placement audition (at the first meeting) or permission of the instructor. All courses listed below may be taken for 0 credit to fulfill the physical education requirement. One-point dance technique courses taken by non-dance majors for credit over and above the physical education requirement are included in the existing maximum of 18 points of studio, performing art, or professional school courses which may be credited toward the degree; a maximum of six courses in dance technique can be credited. A student who takes more than two one-point dance technique courses for credit beyond the physical education requirement is required to validate the third and fourth dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Modern Dance

The study of contemporary dance based on the work of 20th-century innovators, Cunningham, Graham, Humphrey, Limón and others. Aesthetic principles of modern dance will be taught with increased technical demands required in each successive level.

DAN BC 1329x**Fundamentals of Dance Movement**

Introduction to basic movement techniques common to all dance styles. —E. Graff

1 point. Tu Th 10:30-12:00

DAN BC 1330x, 1331y**Modern I: Beginning Modern Dance**

1 point. x: M W 6:00-7:30 —S. Genter

y: Tu Th 9:00-10:30 —E. Graff

DAN BC 1332x, 1333y**Modern II:****Advanced Beginning Modern Dance**

1 point. x: Tu Th 9:00-10:30 —E. Graff

y: M W 2:30-4:00 —E. Graff

DANCE

DAN BC 2332x, 2333y
Modern III: Intermediate Modern Dance
1 point. x: W F 9:00-10:30 —C McCann
y: Tu Th 10:30-12:00 —J. Soares

DAN BC 2334x, 2335y
Modern IV: High Intermediate Modern Dance
1 point. x: Tu Th 12:00-1:30 —S. Genter
y: W F 9:00-10:30 —C. McCann

DAN BC 3332x
Modern V: Advanced Modern Dance
1 point. x: W F 10:30-12:00 —C. McCann

DAN BC 3336y
Modern VI: High Advanced Modern Dance
—C. McCann
1 point. W F 10:30-12:00

DAN BC 3334y
Improvisation
Techniques of invention through problem-solving methods in dance.
1 point. Not offered in 1993-94.

Ballet

Technique of classical ballet emphasizing proper alignment and graduated study of its vocabulary. Artistry of articulation, phrasing, dynamics, nuance in the spectrum of classical materials will be addressed at each level.

DAN BC 1135x, y
Ballet I: Beginning Ballet
1 point.

x: Sec. 1 M W 2:30-4:00 —J. Soares
Sec. 2 Tu Th 9:00-10:30 —J. Ansley-Ungar
y: Sec. 1 M W 12:00-1:30 —J. Ansley-Ungar
Sec. 2 Tu Th 9:00-10:30 —J. Ansley-Ungar

DAN BC 1137x, 1138y
Ballet II: Advanced Beginning Ballet
1 point. x: M W 12:00-1:30 —J. Ansley-Ungar
y: M W 10:30-12:00 —J. Ansley-Ungar

DAN BC 2137x, 2138y
Ballet III: Intermediate Ballet
1 point. x: M W 10:30-12:00 —J. Ansley-Ungar
y: Tu Th 10:30-12:00 —J. Ansley-Ungar

DAN BC 1553y
Ballet Technique and Theory
2 points. Not offered in 1993-94.

DAN BC 2139x, 2140y
Ballet IV: High Intermediate Ballet
1 point. x: M W 9:00-10:30 —J. Ansley-Ungar
y: M W 9:00-10:30 —J. Ansley-Ungar

DAN BC 3138x, 3139y
Ballet V: Advanced Ballet
1 point. x: Tu Th 4:00-5:30 —E. Kunikova
y: Tu Th 2:30-4:00 —E. Kunikova

DAN BC 3141y
Ballet VI: Advanced Ballet and Pointe
—E. Kunikova
1 point. Tu Th 4:00-5:30

DAN BC 3142x
Classic Variations
Pointe work when the repertory demands it.
—E. Kunikova
1 point. Tu Th 5:30-7:00

DANCE STYLES

The study of indigenous dance forms including character, jazz, musical theater and tap. (Dance majors may elect to study Spanish and Indian dance forms at the Juilliard School.)

DAN BC 1247x
Jazz I: Beginning Jazz Dance
—K. King
1 point. Tu Th 4:00-5:30

DAN BC 2248x, y
Jazz II: Intermediate Jazz Dance
—K. King
1 point. x: Tu Th 5:30-7:00
y: Tu Th 4:00-5:30

DAN BC 3249y
Jazz III: Advanced Jazz Dance
—K. King
1 point. Tu Th 5:30-7:00

DAN BC 2141
Character Dance
1 point. Not offered in 1993-94.

DAN BC 1446y
Tap I: Beginning Tap Dance
—J. Ansley-Ungar
1 point. Tu Th 12:00-1:30

DAN BC 2447
Tap Dance II: Intermediate Tap
Not offered in 1993-94.

DAN BC 2140
Musical Theater Dance
Not offered in 1993-94.

DAN BC 3250y
Classical Spanish Dance
—G. Marina
1 point. M W 4:00-5:30

ECONOMICS

4A Lehman Hall

854-3454

Professors: Duncan Foley(Co-Chair), William Lazonick¹, Deborah Milenkovitch²

Associate Professor: André Burgstaller (Co-Chair)

Assistant Professors: Linda Barrington, Cecilia Conrad, Christopher Grandy¹, Perry Mehrling

Other officers of the University offering courses listed below:

Professors: Jagdish Bhawati, Philip D. Cagan, Graciela Chichilnisky, Padma Desai, Phoebus Dhrymes, Richard Ericson, Ronald E. Findlay, Kelvin Lancaster, Robert Mundell, Hugh Patrick (Graduate School of Business), Dani Rodrik, Stanislaw Wellisz, Harold Watts

Associate Professors: Christopher Cavanagh, Brendan O'Flaherty, Joe Tracy

Assistant Professors: Jay Pil Choi, Prajit Dutta, Todd Idson, John McLaren, Katherine Morgan, Phillip Jefferson

Adjunct Professors: Andrew Abere, Vahid Nowshirvani, Carl Riskin, Lewis Schier

¹Absent on leave 1993-94

²Absent on leave Autumn term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. Barnard's major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the programs is (i) to foster a critical understanding of economics and its relations to other disciplines; (ii) to develop students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy should complete an intermediate macro- or microeconomic theory course before the beginning of their junior year. Students must complete all of their required courses for the major as well as their upper-level electives (those requiring an intermediate microeconomic or macroeconomic theory course as a prerequisite and, for Political Economy track majors, the upper-level political science course) before they are allowed to register for the senior essay.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis, but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

ECONOMICS

Economics

The Economics track major requires either MAT V 1111 *Calculus for Social Sciences I*, (the addition of MAT V 1112 is strongly recommended), or MAT V 1106-1107 (*Calculus IS and IIS*), or MAT V 1101-1102, with V 1201, (*Calculus IA, IIA, and IIIA*) and nine courses in economics including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>The Theoretical Foundations of Political Economy</i>

One of the following:

ECO BC 2411	<i>Statistics for Economics</i>
STA W 1111	<i>Introduction to Statistics</i>
STA W 1001	<i>Introduction to Statistical Reasoning</i>

One of the following:

ECO BC 2412	<i>Empirical Methods for Economics</i>
ECO BC 3018	<i>Econometrics</i>

Two electives, which require an intermediate microeconomic or macroeconomic theory course as a prerequisite; and

ECO BC 3061-3062	<i>Senior Research Seminar</i>
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Political Economy

The Political Economy track major requires 11 courses, including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>The Theoretical Foundations of Political Economy</i>

Three electives which require an intermediate microeconomic or macroeconomic theory course as a prerequisite:

Two electives in economics (excluding introductory economics), or a related discipline; one upper-level course in political science*; and

ECO BC 3061-3062	<i>Senior Research Seminar.</i>
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*The following Political Science courses are not considered upper-level:

BC 3001	<i>Dynamics of American Politics;</i>
V 3505	<i>Introduction to Comparative Politics;</i>
V 3611	<i>International Politics;</i>
BC 3013	<i>Political Theory.</i>

Both Economics and Political Economy track majors must file the “Major Requirements Declaration” form—available from the department office—no later than registration of the first semester of their senior year. This form must be approved by the chair before a student will be allowed to register for the senior thesis, BC 3061-BC 3062.

Political Economy majors who plan to go on to graduate school in business or in international relations with an economics concentration should take one semester of credit college math (either pre-calculus or calculus), and Economics BC 2411.

Political Economy majors who plan to go on to graduate school Ph.D. programs in economics should take one year of calculus, Economics BC 2411, and Econometrics among their economics electives.

Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take calculus (required of Economics track majors).

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3035, and three electives, one of which has an intermediate microeconomic or macroeconomic theory course as a prerequisite.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

ECO BC 1001x, y **Introduction to Economics**

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality (Macroeconomic Principles). —Staff
Credit cannot be granted for both BC 1001 and W 1105.
3 points. III S
x,y: Tu Th 1:10-2:25

ECO BC 1002x, y

Introduction to Economics

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems (Microeconomic Principles). —Staff
BC 1001 is not a prerequisite for BC 1002. Credit cannot be granted for both BC 1002 and W 1105.
3 points. S
x,y: M W 1:10-2:25

ECO BC 2035y **Microeconomic Policy Analysis**

Introduction to microeconomics theory and cost/benefit analysis through case studies. Specific cases studied may vary from year to year, but will always include at least one case from each of the following three subject areas: (1) environmental policy; (2) tax policy and income redistribution; and (3) urban economic development. —C. Conrad
3 points. M W 2:40-3:55 S

ECO BC 2411x **Statistics for Economics**

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One hour weekly recitation sessions to complement lectures. —L. Barrington
4 points. M W 11:00-12:15 S

CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.
Prerequisite: An introductory course in economics or permission of the instructor.

ECO BC 2010x **Sex, Discrimination, and the Division of Labor**

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and childbearing; role of government and unions in structuring women's options, and some international comparisons. —C. Conrad
3 points. M W 2:40-3:55 I S

ECO BC 2013x **Economic History of the United States**

An introduction to the rise and decline of U.S. economic power. Beginning with the social transformation of the late 19th and early 20th century that permitted the U.S. to surpass Britain as the world's leading industrial economy and concludes with the rise of Japanese competition in the 20th century. Reasons for the United States current economic decline; long term social and economic policies to ensure U.S. economic prosperity. —TBA.
3 points. Tu Th 2:40-3:55 III S

ECO BC 2014y **Topics in American Economic History**

—Instructor TBA.
3 points. Tu Th 10:35-11:50 III S

ECONOMICS

ECO BC 2024y
Women in International Development

—Instructor TBA.
3 points. Tu Th 9:10-10:25 I S

ECO BC 2025x
World Economy

—Instructor TBA.
3 points. Tu Th 1:10-2:25

ECO BC 2026y
Modern Capitalism
3 points. Not offered in 1993-94. S

SPECIALIZED COURSES

ECO BC 2412x, y
Empirical Methods for Economics

Prerequisites: BC 2411 or STA W 1111 or STA W 1001 and permission of the instructors in BC 2412 and the upper level course.
1 point. Not offered in 1993-94.

ECO BC 3011y
Poverty and Income Distribution

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross section and time-series data; alternative economic theories of poverty and income distribution, e.g., transfers, wage subsidies, training programs. —C. Conrad
Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.
3 points. M W 1:10-2:25 S

ECO BC 3016x
Spending, Deficits and Taxes

Prerequisite: Intermediate Microeconomic Theory, or permission of the instructor.
3 points. Not offered in 1993-94. S

ECO BC 3018y
Econometrics

Specification, estimation, and evaluation of economic relationships using economic theory, data and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets. —L. Barrington
Prerequisites: Intermediate Microeconomic or Macroeconomic Theory and BC 2411, or STA W 1111 or STA W 1001 or permission of the instructor.
4 points. Lecture M W 1:10-2:25 S
Laboratory hours TBA.

ECO BC 3019x
Labor Economics

—Instructor TBA.
Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.
3 points. M W 2:40-3:55 S

ECO BC 3021x
The Regulation of Industry

The economic effects of government regulation of industry; the history, structure, and organization of regulatory agencies; the theory of natural monopoly and public utility pricing; the costs and benefits of health and safety regulations; case studies of specific industries. —C. Conrad
Prerequisite: Intermediate Microeconomic Theory.
3 points. M W 1:10-2:25 S

ECO BC 3029x
The Economics of Underdeveloped Areas

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy. —Instructor TBA.
Prerequisite: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.
3 points. Tu Th 9:10-10:25 I S

ECO BC 3030y
Comparative Economic Systems

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.
3 points. Not offered in 1993-94. I S

ECO BC 3033x, y
Intermediate Macroeconomic Theory

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.
Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.
4 points. S
Primarily for majors in the economic track.
x: Tu Th 4:10-5:25 —A. Burgstaller
Primarily for majors in the political economic track.
y: Tu Th 1:10-2:25 —P. Mehrling

ECO BC 3035x, y**Intermediate Microeconomic Theory**

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.

4 points.

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.

x: M W 4:10-5:25 —Instructor TBA. S

Prerequisites: An introductory course in economics or permission of the instructor, 1 semester of calculus for social sciences (Calculus IE) or 3 semesters of regular calculus (Calculus I, II, III) This section is primarily for students in the Economics track.

y: M W 2:40-3:55 —Instructor TBA. S

ECO BC 3036y**Financial Markets**

Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis; macroeconomic factors and asset returns. — P. Mehrling.

Prerequisites: Intermediate Macroeconomic or Microeconomic Theory and BC 2411, STA W 1111 or STA W 1001. 3 points. Tu Th 2:40-3:55 S

ECO BC 3037y**Growth and Distribution**

Classical theories of growth and distribution and their modern developments. The effect of changes in technology, savings behavior, and the distribution between wages and profits on long-term rates of economic growth. Multi-sectoral growth models, relative prices, the uniform rate of profit. Growth with limited resources. Non-steady-state models. Applications to the study of real economics.

—A. Burgstaller

Prerequisites: Intermediate Macroeconomic and Microeconomic Theory or permission of the instructor. 3 points. Tu Th 4:10-5:25 S

ECO BC 3038y**International Money and Finance**

Prerequisites: Intermediate Macroeconomic Theory 3 points. Not offered in 1993-94. S

ECO BC 3039y**Natural Resources and Environmental Economics**

An economic analysis of major issues and policy choices concerning the environment and stock of natural resources. Topics include: public goods; cost/benefit analysis; hedonic prices; efficient sustainable yield; Pigovian taxes and marketable emission permits. (This course will be recognized as an upper-level elective for Economics majors who demonstrate advanced economic analysis.) —L. Barrington

Prerequisite: ECO BC 1002 or ECO BC 2035.

Prerequisite for Economic Majors: ECO BC 3035 or the equivalent.

3 points. M W 4:10-5:25 S

ECO BC 3041x, y**The Theoretical Foundations of Political Economy**

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neo-classicism, Keynesianism, and Monetarism. Theoretical controversies in 20th-century political economy.

Prerequisite: An introductory course in economics or permission of the instructor.

3 points.

x: Tu Th 1:10-2:25 —A. Burgstaller III S

y: Tu Th 2:40-3:55 —Instructor TBA

ECO BC 3051y**Law and Economics**

Prerequisites: Intermediate Microeconomic Theory.

3 points. Not offered in 1993-94. S

ECO BC 3061x, 3062y**Senior Research Seminar**

Discussions and conferences on the researching and writing of the senior essay. —Staff

Prerequisites: The completion of other major requirements or permission of the instructor. See department for application forms.

4 points. W 4:10-6:00

ECO BC 3063x**Seminar: Topics in Economic Theory**

A seminar on a topic in economic theory of the instructor's choice. —P. Mehrling

Prerequisite: Intermediate Microeconomic or Macroeconomic Theory and permission of the instructor.

4 points. Tu 4:10-6:00 S

ECO BC 3064y**Seminar: Topics in Economic Policy**

A seminar on a topic in economic policy of the instructor's choice. —Instructor TBA.

Prerequisites: Intermediate Microeconomic or Macroeconomic Theory and permission of the instructor.

4 points. Not offered in 1993-94. S

ECONOMICS

ECO BC 3065x
Seminar in Business Organization
A seminar in the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies. —Instructor TBA
Prerequisites: *Intermediate Microeconomic Theory and permission of the instructor.*
4 points. Th 4:10-6:00 I S

ECO BC 3099x, y
Independent Study
—Staff
Points TBA. Hours TBA.

ECO W 4258y
Worker Management
Prerequisite: *Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.*
3 points. Not offered in 1993-94. III S

ECO W 4524y
Economic Organization of Eastern Europe
—D. Milenkovitch
Prerequisite: *Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.*
3 points. M W 2:40-3:55 III S

ECO W 4435x
Economics of Socialism
Prerequisite: *Intermediate Microeconomic Theory or permission of the instructor.*
3 points. Not offered in 1993-94. I S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.
Note: Barnard Economics BC 3033 is equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211. Please consult the department office for a list of Columbia economics courses whose subject matter overlaps directly with Barnard economics courses.

ECO W 3022y
Economics of Finance
—Instructor TBA
Prerequisites: *calculus, statistics, and intermediate microeconomics.*
3 points. Hours TBA. S

ECO W 3910x
Seminar in Economic Development
—Instructor TBA
Prerequisites: *W 3211, W 3213 and W 3321 and permission of the instructor.*
4 points. Hours TBA. S

ECO W 3940x
Seminar in Labor Economics
—Instructor TBA
Prerequisites: *W 3411.*
4 points. Hours TBA S

ECO W 3228y
The Urban Economy
—B. O'Flaherty
Prerequisite: *W 3211.*
3 points. Tu Th 12:10-2:00 S

ECO W 3251y
Industrial Organization
—A. Bhattacharjya
Prerequisite: *W 3211*
3 points. M W 6:30-7:45 S

ECO W 3261y
Introduction to Accounting and Finance
4 points. Sec. 1 M W 6:10-8:00 — K. Morgan
Sec. 2 Tu Th 12:10-2:00 —L. Schier
(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y
Economic Development
—J. McLaren
Prerequisite: *Economics W 3211.*
3 points. Tu Th 1:10-2:25 S

ECO W 3411y
Labor Economics
—H. Watts
Prerequisite: *W 3211.*
3 points. M W 1:10-2:25 S

ECO W 3412x, y
Econometrics
Prerequisites: *Statistics W 1111 or the equivalent and W 3211 or W 3213.*
3 points.
x: Sec. 1 Tu Th 10:35-11:50 —P. Dhrymes
Sec. 2 M W 6:10-7:25 —Instructor TBA
y: Sec.1 M W 11:00-12:15 —J. Tracy
Sec 2 M W 2:40-3:55 —Instructor TBA
Sec 3 Tu Th 6:10-7:25 —Instructor TBA S

ECO W 3415y
Game Theory
—S. Elmes
Prerequisite: *Economics W 3211.*
3 points. Tu Th 11:00-12:15 S

ECO W 3610x The Economic Analysis of Law —A. Abere <i>Prerequisite:</i> Economics W 3211. 3 points. M W 9:10-10:25	S	ECO W 3913x Seminar in Macroeconomic Theory —Instructor TBA <i>Prerequisite:</i> W 3213. 4 points. M 4:10-6:00	S
ECO W 3711x Monetary Economics and Policy —P. Cagan <i>Prerequisite:</i> W 3213. 3 points. M W 2:40-3:55	S	ECO W 4235y Historical Foundations of Modern Economics: Adam Smith to JM Keynes —K. Lancaster 3 points. M W 2:40-3:55	S
ECO W 3863y Public Economics —Instructor TBA <i>Prerequisite:</i> W 3211. 3 points. Th Th 11:00-12:15	S	ECO G 4325y Economic Organization and Development of Japan —Instructor TBA <i>Prerequisites:</i> W 3211 or W 3213. 3 points. M W 10:35-11:50	S
ECO W 3922y Seminar in Public Economics —K. Lancaster <i>Prerequisite:</i> W 3863. 4 points. Tu 11:00-12:15	S	ECO W 4337x Economic Organization and Development of the Middle East —V. Nowshirvani <i>Prerequisite:</i> W 1105. 3 points. M 4:10-6:00	S
ECO W 3904x, y International Trade x: R. Findlay, y: R. Mundell <i>Prerequisite:</i> W 3211. 3 points. x: M W 9:10-10:25 y: Tu Th 10:35-11:50S		ECO G 4523x Economic Organization and Development of the CIS —R. Ericson <i>Prerequisite:</i> W 1105. 3 points. Not offered in 1993-94.	S
ECO W 3905x International Monetary Theory and Policy —Instructor TBA <i>Prerequisite:</i> W 3213. 3 points. Tu Th 6:10-7:25	S	ECO W 4526y Current Economic Problems of the CIS —P. Desai <i>Prerequisite:</i> W 1105. 3 points. M 2:10-4:00	
ECO W 3906y Seminar in International Trade —Instructor TBA <i>Prerequisite:</i> W 3904 and permission of the instructor. 4 points. Tu 2:10-4:00	S	ECO G 4527y Economic Organization and Development of China —C. Riskin <i>Prerequisite:</i> W 1105. 3 points. Tu 4:10-6:00	S
ECO W 3907y Seminar in International Monetary Theory and Policy —R. Mundell <i>Prerequisite:</i> W 3905 and permission of the instructor. 4 points. Th 6:10-8:00	S	ECO W 4625x The Economics of the Environment —Instructor TBA <i>Prerequisite:</i> W 3211. 3 points. Hours TBA.	
ECO W 3911y Seminar in Microeconomic Theory —Instructor TBA <i>Prerequisite:</i> W 3211. 4 points. Hours TBA.	S		

ECONOMIC HISTORY

5A Lehman Hall

854-5938

This program is supervised by the Committee on Economic History.

Economics: Christopher Grandy¹, William Lazonick¹ (Program Adviser)

History: Deborah Valenze

¹Absent on leave 1993-94.

The Economic History Program seeks to develop an understanding of the historical process from an economic perspective. The program combines a solid background in economic analysis with an in-depth study of history. Majors in this program will be prepared to enter graduate programs in law, business, public policy or administration, as well as economics and history.

REQUIREMENTS FOR THE MAJOR

A major in Economic History must complete the following 11 courses or their equivalents:

ECO BC 2013.

Economic History of the United States

ECO BC 3041.

Theoretical Foundations of Political Economy

Two of the following:

ECO 3033.

Intermediate Macroeconomic Theory

ECO 3035.

Intermediate Microeconomic Theory

ECO 2411.

Statistics for Economics

ECH BC 3066.

Colloquium in Economic History.

(Students must have completed the requirements above before taking this course).

Four History courses (three within a single concentration) selected in consultation with the major advisor.

Two semesters of Senior Research Seminar in Economics or History.

Students must complete all of the requirements for the major before they will be permitted to register for the Senior Essay.

No minor is offered in the Economic History Program.

COURSES OF INSTRUCTION

ECH BC 3066

Colloquium in Economic History

Analytical and empirical methods in economic history through intensive study of one topic area.

Topics in American and European economic history offered in alternate years. Specific topic to be determined by the instructor. —Instructor TBA.

Prerequisites: ECO BC 2013, 3041, and two of the following: ECO BC 3033, 3035, 2411 or equivalent.
4 points. Hours TBA.

EDUCATION

336B Milbank Hall

854-2117, 5408, 7072

Senior Lecturer: Susan Riemer Sacks (Program Director)

Senior Associate: Katherine Knight Wilcox

This program is supervised by the Committee on Education:

Professor of English: Remington Patterson

Professor of Spanish: Mirella Servodidio

Professor of Psychology: Peter Balsam

Associate Dean of Columbia College: Kathryn Yatrakis

Dean of Students, School of General Studies: David Lelyveld

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be doubly counted for a minor.

Interested students should consult with the Education Program faculty in 336 Milbank, and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year and no later than the first Monday in October in the autumn term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the New York State Teacher Certification Examination as part of the certification process.

Elementary School Program

This program leads to the New York State Provisional Common Branch Certificate (pre-K-6). Students participating in the elementary program must complete 16 credits as follows:

One Psychology course, chosen from among:

Psychology BC 1105 or BC 1107
Psychology BC 1127 or BC 1129
Psychology BC 1130 or BC 1132
Psychology BC 2134

Psychology of Learning
Developmental Psychology
Human Memory and Learning
Educational Psychology

One Foundations course, chosen from among:

Philosophy V 3758
Sociology V 3225
Education BC 2032
History BC 3461

Philosophy of Education
Sociology of Education
Contemporary Issues in Education
Education in American History

EDUCATION

A third course from either of the above categories, and the methods course with practicum:

Education BC 2052	<i>Seminar in Methods of Elementary School Teaching</i>
Education BC 2055	<i>School Practicum</i>

During the Spring Term of their junior year, all students entering the elementary education program take Education BC 2052, and co-requisite, Education BC 2055. BC 2052 and BC 2055 are prerequisites to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete 12 credits from the following course of study:

One Psychology course, chosen from Psychology BC 1105 or BC 1107; BC 1127 or BC 1129; BC 1130 or BC 1132; or BC 2134; and

The methods course with practicum:

Education BC 2062	<i>Seminar in Secondary School Curriculum Development</i>
Education BC 2055	<i>School Practicum</i>

All students entering the secondary education program take this methods course which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages; and School Practicum, a classroom internship each week. Education BC 2062 and Education BC 2055 are prerequisites to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses for four credits each:

Education BC 3063	<i>Teaching in the Elementary or Secondary Schools</i>
Education BC 3064	<i>Seminar in the Teaching-Learning Process</i>

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn Term, or Education BC 3063y and BC 3064y in the Spring term. No more than two other courses should be taken in addition to student teaching and the seminar. No student with incompletes may student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g., Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of six courses: Education BC 3063, Education BC 3064, a methods course and the practicum course, and two others from those courses cited above, but not counted towards the major.

COURSES OF INSTRUCTION

EDU BC 2032x**Contemporary Issues in Education**

Study of critical issues confronting education today and the relation to contemporary society. Topics include equity in learning experiences for bilingual, culturally diverse, gifted and disabled students—girls and boys. The impact of computers, technology, and values teaching on schooling will be addressed. Observations in classroom required. —K. Wilcox

Prerequisite: Permission of the instructor.
4 points. W 2:10-4:00

I

EDU BC 2052y**Seminar in Methods of Elementary School Teaching**

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. —K. Wilcox

This course should be taken in the Spring Term of the junior year with corequisite BC 2055. Prerequisite to student teaching in the elementary grades. Open to Education program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 2055y**School Practicum**

A school-based opportunity to investigate educational theory and methodology in practice through involvement in assigned elementary or secondary New York City Public Schools. Supervised classroom experiences interrelate with co-requisite Methods seminars to provide an understanding of teaching and learning processes through participant-observation of 6 hours per week.

Corequisite: BC 2052y or BC 2062y.

2 points. Hours to be arranged.

EDU BC 2062y**Seminar in Secondary School Curriculum Development**

Theory and practice of developing secondary school curricula through classroom observations and participation in weekly seminars. Emphasis on analysis of pedagogical strategies appropriate to specific disciplines. —Instructor TBA

This course should be taken in the Spring Term of the junior year with co-requisite BC 2055.

Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 3063x, y**Teaching in the Elementary or Secondary Schools**

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelations between process, content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year. —Staff
Prerequisite: Completion of BC 2052 or BC 2062 and BC 2055. *Corequisite:* BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited to 28.

4 points. Hours to be arranged.

EDU BC 3064x, y**Seminar in the Teaching-Learning Process**

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situation. Provides a forum for discussion of the principles and practices of classroom teaching and examines the educational process. Teaching skills are developed through individual supervision, conferences and video-taping. Seminar sessions include discussion of drug, alcohol, and child abuses. —S. Sacks

Prerequisite: Admission to Education Program.

Corequisite: BC 3063. Enrollment limited to 28.

4 points. M 2:10-4:00

History HIS BC 3461x**Education in American History**

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch

Permission of the instructor required.

4 points. Tu 2:10-4:00

Philosophy PHI V 3758y**Philosophy of Education**

Drawing on classical and contemporary authors, discussion with focus on the question of the conditions requisite for producing free and responsible individuals. Selected readings from Plato, Rousseau, Dewey and others. —R. Myers

3 points. Tu Th 1:10-2:25

EDUCATION

Sociology SOC V 3225y **Sociology of Education**

Social organization of education in the United States: the school as a complex organization; the classroom as a learning environment; social factors

in academic aspirations and achievements; selected innovations in educational practices; and problems in the relations between the school and the community. —K. Neckerman
3 points. M W 1:10-2:25

COOPERATING TEACHER PARTICIPANTS FOR 1992-1993

P.S. 84

Ann Chase
Doris Columbo
Diane Glenn
Melissa Hart
Eleanor Jackson
Susan Knaster
Linda Margolin
Ruth Schroeder

P.S. 87

Myrna Brathwaite
Rosa Feder
Susan Fischer
Stephanie Lavine
Betty Lerner
Shirley Nuchman
Ann Pacifico
Robin Ulzheimer

P.S. 166

Wendy Bochanek
Anna Fierro
Hollie Freeman
Ginger Hanlon
Terry Miller
Romanita Peña
Carmen Rodriguez

P.S. 173

Paula Bower

IS 44

Social Studies:
Jennifer Ander
Lutricia Doyle

Mott Hall

English:
Allison Richardson
Gricilia Cox

Booker T. Washington JHS 54

English:
Jane Acosta
Constance Burnett
Robert Cassetti
Ann Puddu
Andrea Wertheimer

Mathematics:
Lorraine LaSenna
Richard Stern

Science:
Anna McDowell

Social Studies:
Embry Dubose
Adam Santiago
Michelle Sufrin
Allen Urkowitz

Brown Computer School

Mary Metzger

Columbus Academy

English:
Kevin McIntosh

Hunter College HS

English:
Christopher Zegers
Latin:
Claire Mazzola
Social Studies:
Susan Leung Eichler

Joan of Arc JHS 118

Social Studies:
Elana Eisler

Stuyvesant HS

Chemistry:
Jaclyn Thomson

John F. Kennedy High School

English:
Eileen Sokoloff

Mathematics:
James Purnell

Social Studies:
Rick Levine
Oscar Mena
Chris Valenza

ENGLISH

417 Barnard Hall

854-2116

Professors: Elizabeth Dalton (Director of Writing), Mary Gordon² (Millicent C. McIntosh Professor), Maire Jaanus, Joann Ryan Morse², Robert G. O'Meally (Adolph S. & Effie Ochs Professor of English & American Studies), Remington Patterson (Chair), Anne Lake Prescott²

Associate Professors: James Basker¹, Christopher Baswell¹, Celeste Schenck¹, William Sharpe¹

Adjunct Associate Professors: Frank Brady, Patricia Cobey, Nahid Rachlin, Lynne Sharon Schwartz, Elizabeth Swain (Theatre)

Assistant Professors: Lisa Gordis, Paula Loscocco, Cary Plotkin, Timea Szell

Adjunct Assistant Professors: April Bernard

Lecturers: Constance Brown, Patricia Denison, Margaret Ellsberg, John Pagano, Nancy Piore (Director of First Year English and The Writing Project), Aaron Schneider, Anita Soloway

Associate: Quandra Prettyman

Instructors: Linda Ainsworth, Lea Baechler, Karen Hornick, Gail Korn, Sarah Markgraf, James Runsdorf, Elizabeth Stewart, Margaret Vandenburg

Assistant: Constance Budelis

¹Absent on leave 1993-94

²Absent on leave Spring term

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in the Humanities by electing appropriate courses listed under Language and Literature.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least 10 courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*); for possible substitutions see BC 3159, below.
2. In addition, she will complete five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (ETR BC 3136, 3137, BC 3140 (Sec.1), 3141, BC 3154-BC 3179). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). Seniors concentrating in Theatre or Writing will normally substitute the Special Project in Theatre or Writing (BC 3996) for one of the required seminars. Other qualified senior majors may request permission to substitute Independent Study for one of the seminars (see BC 3999, below).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: one from either Chaucer (BC 3154 or BC 3155), Shakespeare (ETR BC 3136, ENG BC 3163, or BC 3164), or Milton (BC 3167); two additional courses in literature before 1900 (ETR BC 3137, BC 140 (Sec. 1), BC 3141; and BC3154-BC 3179); and two electives.

CONCENTRATIONS IN THE MAJOR

American Literature

Those wishing to concentrate in American literature should consult Professor O'Meally (Room 408D Barnard). In addition to ENG BC 3159, 3160 (or appropriate substitutes) and 3193, an American concentration consists of 3179, either 3180 or 3182, one other American literature course, and one senior seminar with a focus on American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in English literature before 1900.

Theatre

Students interested in a Theatre concentration should consult Professor Swain (Room 230 Milbank) or Professor Denison (Room 412 Barnard). A Theatre concentration consists of four courses: three courses, either two History of Theatre (ETR BC 3131-3133) and one Seminar (ETR BC 3134-3137, THR 3140) OR one History of Theatre and two Seminars; a fourth course that is either Special Project in Theatre (ENG BC 3996), or Senior Project: Performance (THR BC 3997), or Thesis Course: History, Dramaturgy, Criticism (THC BC 3998). These four courses will count in place of two electives and one Senior Seminar in the regular English major.

Writing

Those wishing to concentrate in writing should consult Professor Dalton (Room 408A Barnard). A writing concentration consists of at least four courses: two writing courses (BC 3105-3113); a third course in writing combined with a Special Project in Writing (BC 3996) or Independent Study (BC 3999); and a fourth course, either a literature course (in English or other language), a creative writing course, or ARS BC 3031. These four courses will count in place of two electives and one Senior Seminar in the regular English major.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y First-Year English

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor.

—Director and Staff

Prescribed for all first-year students. May not be taken for pass/fail.

3 points. Consult Department bulletin board for section times.

ENG BC 1202x, y Special Studies in Writing

For students who want additional work in writing. Class workshops, individual assignments, weekly conferences. Particularly recommended for those whose first language is not English.

Permission of the instructor required.

May only be taken for pass/fail.

3 points.

x: Sec. 1 M W 11:00-2:15 —Instructor TBA.

Sec. 2 Tu Th 10:35-11:50 —A. Soloway

y: Sec. 1 Tu Th 10:35-11:50 —A. Soloway

WRITING

Registration in each course is limited and the written permission of the instructor is required; please file signed departmental registration blanks with Mrs. Budelis (417 Barnard). Two writing courses may not be taken concurrently.

ENG BC 3101x The Writer's Process: A Seminar in the Teaching of Writing

An exploration of theory and practice in the teaching of writing, designed for students who plan to become Writing Fellows at Barnard (see page 39). Students will read current theory and consider current research in the writing process, and work with other students on their writing.—N. Piore
Application process and permission of the instructor.
3 points. Tu Th 1:10-2:25

ENG BC 3103x, 3104y Exposition

Sections 1 and 2 (Autumn and Spring Terms): English composition above the first year level. Techniques of argument and effective expression. Weekly papers. Individual conferences.

Section 3 (Spring Term): Journalism and popular writing; methods of news writing and news judgment.

3 points. Sec. 4 (x,y) *English as a Second Language*

x: Sec. 1 Tu 2:10-4:00 —Q. Prettyman

Sec. 2 W 12:00-1:50 —J. Runsdorf

Sec. 3 Th 12:00-1:50 —Instructor TBA

Sec. 4 (ESL) M 4:10-6:00 —Instructor TBA

y: Sec. 1 T 2:10-4:00 —Q. Prettyman

Sec. 2 W 12:00-1:50 —Instructor TBA

Sec. 3 W 4:10-6:00 —F. Brady

Sec. 4 (ESL) Tu 4:10-6:00 —Instructor TBA

ENG BC 3105x, 3106y

Fiction and Non-Fiction

Short stories and personal narrative.

3 points. x: W 4:10-6:00 —E. Dalton

y: W 2:10-4:00 —T. Szell

ENG BC 3107x, 3108y

Experiments in Writing

Practice in writing short stories and autobiographical narrative, with discussion and close analysis in a workshop setting.

3 points. x: Sec. 1 Tu 4:10-6:00 —L. Schwartz

Sec. 2 Th 2:10-4:00 —N. Rachlin

y: Tu 2:10-4:00 —N. Rachlin

ENG BC 3110x

Poetry Writing

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques. —A. Bernard

3 points. M 4:10-6:00

ENG BC 3111x, 3112y

Story Writing

Advanced work in writing, with emphasis on the short story.

Prerequisite: Some experience in the writing of fiction.

Conference hours to be arranged.

3 points.

x: Tu 4:10-6:00 —M. Gordon

y: Tu 4:10-6:00 —Instructor TBA

ENG BC 3113x

Playwriting

A workshop to provoke and investigate dramatic writing. —P. Cobey

3 points. W 12:00-1:50

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121y

The Uses of Speech

An introduction to effective oral presentation including interviewing and public speaking. Emphasis on self-presentation, research, organization, and audience analysis. —P. Denison

3 points. Tu Th 2:40-3:55

ENG BC 3124y

Oral Interpretation of Literature

3 points. *Not offered in 1993-94.*

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 230 Milbank Hall.

ETR BC 3131y

History of Theatre:

The Greeks to the Italian Renaissance

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Italian Renaissance. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3132y

History of Theatre:

Shakespeare to the 19th Century

Enrollment limited to 40 students.

3 points. *Not offered in 1993-94.*

H

ETR BC 3133x

History of Theatre: Modern Period

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavski, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia, and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and other playwrights up to modern times. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3134x

Seminar on Contemporary

British Political Theatre

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakov, Keefe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre. —E. Swain

Prerequisite: One semester of theatre history or permission of the instructor.

4 points. W 4:10-6:00

H

ETR BC 3135y
Seminar on 19th-Century Social Drama
 4 points. Not offered in 1993-94. III H

ETR BC 3136y
Seminar on Shakespeare in Performance
 The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison
 Enrollment limited to 20 students.
 4 points. Th 4:10-6:00. I H

ETR BC 3137y
Seminar on Restoration and 18-Century Drama
 Performance conventions, dramatic techniques, and cultural contexts from 1660 to 1800. Playwrights include William Wycherley, Aphra Behn, Mary Pix, Susannah Centlivre, George Etherege, William Congreve, John Gay, and Richard Sheridan. —P. Denison
 Enrollment limited to 20 students.
 4 points. Tu 4:10-6:00 III H

LANGUAGE AND LITERATURE

ENG BC 3140x
Seminars on Special Themes
 Registration may be limited.
 3 points.

1. Explorations of Black Literature: 1760-1890
 Poetry, prose fiction and nonfiction, with special attention to the slave narrative. Includes Wheatley, Douglass, and Jacobs, but emphasis will be on less familiar writers such as Brown, Harper, Walker, Wilson, Forten. Works by some 18th-century precursors will also be considered. —Q. Prettyman
 M W 2:40-3:55 H

2. The Enchanted Imagination
 Romantic and post-Romantic fantasy that examines the transformative role of imagination in aesthetic and creative experience, challenges accepted boundaries between the imagined and the real, and celebrates otherness and magic in a disenchanted world. Authors include Blake, Coleridge, Keats, Mary Shelley, Tennyson, Carroll, Tolkien, Le Guin, Garcia Marquez. —J. Pagano
 Tu Th 2:40-3:55 H

BC 3140y
1. The Jazz Shape of American Culture
 According to Ralph Ellison, many expressions of American culture — from sports to tall tales to skyscrapers — are "jazz-shaped." In this course, we will consider this proposition and broad questions of what and how this music means. Readings will include works by and about jazz musicians as well as poetry and fiction that is influenced by "the music." We will read Louis Armstrong, Danny Barker, Billie Holiday, Sidney Bechet and Albert Murray, Eileen Southern, James Baldwin. —R. O'Meally
 Tu Th 10:35-11:50 H

2. American Jewish Writers
 The tensions of acculturation, the American dream, the impact of the Holocaust and the State of Israel. Writers include Cahan, H. Roth, Malamud, Bellow, Olsen, Paley, P. Roth, Ozick, Spiegelman. —A. Soloway
 Tu Th 9:10-10:25 H

ENG BC 3141x, 3142y
Major English Texts
 A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Beowulf through Dryden. Spring: Augustans to the present. —M. Ellsberg
 Guest lectures by members of the department.
 3 points. M W 11:00-12:15 H

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States
 Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
 Permission of the instructor required.
 3 points. M W 2:40-3:55 H

ENG BC 3154x
The Early Chaucer
 3 points. Not offered in 1993-94. H

ENG BC 3155y
Chaucer
 A study of *The Canterbury Tales* and their "tellers", with special emphasis on the pilgrimage metaphor, structure, genre, gender, and issues of authority in language and fiction. —T. Szell
 3 points. Tu Th 4:10-5:25 H

ENG BC 3158y
Medieval Literature
 3 points. Not offered in 1993-94. H

ENG BC 3159x-3160y
The English Colloquium
 Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods. Required of majors in the junior year. Any student who wishes may substitute 3 courses, ETR BC 3137, 3141, 3163 or 3164, or ETR BC 3136, 3165-3169 and BC 3173-3174. One of these may also count toward satisfying "before 1900" requirement.
 4 points.

1. Imitation and Creation

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.
 —x: J. Morse. y: C. Plotkin
 M 2:10-4:00

2. Skepticism and Affirmation

The development of modern concepts of subjectivity and authority. The rise of art and the artist. Humanism, Rationalism and Empiricism. Ethics and evil. The exploration of limits, and the limitless. —M. Jaanus
 Tu 2:10-4:00

3. Reason and Revelation

Humanism, reformation, and revolution: the possibilities of human knowledge; sources and strategies for secular and spiritual authority; the competing demands of idealism and experience. —x: P. Loscocco. y: M. Ellsberg
 Th 2:10-4:00

ENG BC 3163x, 3164y
Shakespeare
 A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. —R. Patterson
 3 points. M W 11:00-12:15 III H

ENG BC 3165x
The Elizabethan Renaissance
 Literature in the age of Elizabeth I: Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire. Some attention to music and visual imagery.
 —A. Prescott
 3 points. Tu Th 1:10-2:25 H

ENG BC 3166x
Seventeenth-Century Prose and Poetry
 Traditions and innovations in English literature of the late Renaissance. Readings in love poetry, religious writing, satire and panegyric, the essay, biography and autobiography. Authors from Donne, Jonson, and Wroth to Marvell, Bunyan, and Behn. —P. Loscocco.
 3 points. Tu Th 10:35-11:50 H

ENG BC 3167y
Milton
 An exploration of Milton's career from his early poems and later prose to *Paradise Lost*, and beyond. Topics considered include poetic vocation, classical imitation, political controversy, gender and sexuality, and Biblical hermeneutics.
 —P. Loscocco
 3 points. Tu Th 10:35-11:50 H

ENG BC 3169y
Renaissance Drama: 1580-1642
 Major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, Webster, and Middleton. —R. Patterson
 3 points. M W 2:40-3:55 H

ENG BC 3171x
The Culture of The Novel
 The Romantic-Realistic novels of Austen, Mary Shelley, the Brontës, Dickens, and Hardy. Other forms of nineteenth-century novelistic narrativity. The philosophical, religious, amorous, and ethical fictions. —M. Jaanus
 3 points. M W 1:10-2:25 I H

ENG BC 3173x
Eighteenth-Century Literature: Satire and Comedy
 3 points. Not offered in 1993-94. H

ENG BC 3174x
Eighteenth-Century Literature, 1740-1800
 3 points. Not offered in 1993-94. H

ENG BC 3176x
English Romanticism
 Two generations of Romantic writers in their intellectual context, with reference to contemporary movements in philosophy, music, and the plastic arts. —C. Plotkin
 3 points. Tu Th 2:40-3:55 H

ENGLISH

<p>ENG BC 3177x The Victorian Age in Literature The origins of modern culture in Victorian England: urbanization, industrialism, evolution, the women's movement, as seen in works by Carlyle, Dickens, Gaskell, Ruskin, Newman, Nightingale, Carroll, Eliot, and others. —A. Soloway 3 points. Tu Th 9:10-10:25 III H</p>	<p>ENG BC 3186x Modern Drama 3 points. Not offered in 1993-94. H</p>
<p>ENG BC 3178x Victorian Poetry and Criticism Poetry, art, and aesthetics in an industrial society, with emphasis on the role of women as artists and objects. Poems by Tennyson, Arnold, Christina and D.G. Rossetti, Swinburne, and Elizabeth and Robert Browning; criticism by Ruskin, Arnold, and Wilde; paintings by the Pre-Raphaelites and Whistler; photographs by J.M. Cameron. —W. Sharpe 3 points. Not offered in 1993-94 III H</p>	<p>ENG BC 3187y American Writers and Their Foreign Counterparts 3 points. Not offered in 1993-94. H</p>
<p>ENG BC 3179x American Literature before 1865 The formation and development of American literary traditions. Writers include: Bradstreet, Edwards, Irving, Emerson, Thoreau, Poe, Hawthorne, Melville, Stowe. —L. Gordis 3 points. M W 1:10-2:25 H</p>	<p>ENG BC 3188x The Modern Novel Works by Hardy, James, Conrad, Lawrence, Joyce, and others. —J. Morse 3 points. M W 11:00-12:15 H</p>
<p>ENG BC 3180y American Literature, 1865-1914 Realism, naturalism, and the beginning of modernism in American literature. Writers include Twain, Howells, James, Dreiser, Wharton, DuBois. —L. Gordis 3 points. M W 1:10-2:25 H</p>	<p>ENG BC 3189x Postmodern Literature Writers since 1945, mostly English and American, and concepts of postmodern culture. Readings include Beckett, Borges, Nabokov, Rhys, Barthelme, Pynchon, and others. —E. Dalton 3 points. Tu Th 4:10-5:25 H</p>
<p>ENG BC 3181x American Fiction American fiction of the 19th and 20th centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others. —R. O'Meally 3 points. Tu Th 10:35-11:50 H</p>	<p>ENG BC 3191x, y The English Conference Various topics presented by visiting scholars in courses that will meet for three or four weeks during each semester. Topics, instructors, and times will be announced by the department. —Visiting faculty To be taken only for pass/fail. 1 point.</p>
<p>ENG BC 3182x American Literature, 1914 to the Present 3 points. Not offered in 1993-94. H</p>	<p>ENG BC 3193x, y Critical Writing The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring Term even before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn Term. —Staff Registration in each section is limited. 4 points.</p>
<p>ENG BC 3185y Modern British and American Poetry 20th-century poetry, including Yeats, Eliot, Auden, Housman, Bishop, Lowell, and selected contemporary poets. —M. Ellsberg 3 points. M W 2:40-3:55 H</p>	<p>x: Sec. 1 M 4:10-6:00 Sec. 2 Tu 2:10-4:00 Sec. 3 W 4:10-6:00 Sec. 4 Th 2:10-4:00 Sec. 5 Th 4:10-6:00 y: Sec. 1 M 2:10-4:00 Sec. 2 M 4:10-6:00 Sec. 3 Tu 4:10-6:00 Sec. 4 W 4:10-6:00 Sec. 5 Th 2:10-4:00</p>

ENG BC 3194x

Critical and Theoretical Perspectives on Literature

1. A History of Criticism

—C. Schenck

3 points. Not offered in 1993-94. H

2. Literary Theory

—M. Jaanus

3 points. Not offered in 1993-94. I H

3. Psychoanalytic Approaches to Literature

Literary expression in the light of psychoanalytic thought. Readings include Freud, Jung, Melanie Klein, and Lacan; Shakespeare, Dostoevsky, Kafka, Beckett, and others. —E. Dalton

3 points. Tu Th 1:10-2:25 H

4. Postmodern Texts and Theory

—M. Jaanus

3 points. Not offered in 1993-94. H

ENG BC 3996x, y

Special Project in Theatre or Writing

Senior majors who are concentrating in Theatre or Writing and have completed two courses in writing or three in theatre will normally take the Special Project in Theatre or Writing (3996x,y) in combination with an additional course in their special field. This counts in place of one of the Senior Seminars. In certain cases, Independent Study (BC 3999) may be substituted for the Special Project.

Permission of the instructor and of the department chair are required.

1 point.

ENG BC 3997x, 3998y

Senior Seminars: Studies in Literature

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper. Written permission of the instructor required.

Enrollment limited to seniors. 4 points.

ENG BC 3997x

1. Wit and Humor in the Renaissance

Focusing on England, but with some classical and Continental texts, this course looks at jest-books, fiction, comedy, verse satire, parody, and wordplay. Some attention to wit as self-polishing and cultural commentary. Authors include More, Shakespeare, Donne, Nash, Rabelais, Marguerite de Navarre, Cicero, Lucian. —A. Prescott

Tu 4:10-6:00

2. The Eighteenth Century Novel

Origins and development of the British novel.

Topics include: historical and cultural influences, technical innovation and experimentation, the picaresque, the novel of sensibility, gothicism, recent theories of the development of the novel.

Readings in Defoe, Richardson, Fielding, Sterne, Goldsmith, Mackenzie, Radcliffe, Horace Walpole, Austen. —A. Schneider

Th 4:10-6:00

3. Victorian and Modern Drama

Drama in transition. Changing social structures and dramatic structures at the turn of the century. The relationship between convention and invention in the plays of George Bernard Shaw, Oscar Wilde, Arthur Pinero, Elizabeth Robins, Cicely Hamilton, and others. —P. Denison

Tu 2:10-4:00

4. Frost and Moore

The poetry of Robert Frost and Marianne Moore. Selections from their critical writings and discussion of their perspectives on modernist poetics will provide the context for analysis of their works. —L. Ainsworth

W 4:10-6:00

5. Body and Language

An examination of major discourses on corporeality and the body's cultural significance.

—M. Jaanus

Tu 6:10-8:00

6. Ulysses and Its Background

A study of Joyce's comic epic and its sources:

Homer, Rabelais, Shakespeare, Swift.—J. Morse

W 2:10-4:00

ENG BC 3998y

Studies in Literature

1. Women in the English Renaissance

Feminist, historical, and literary inquiry into the representation of women and gender in writings 1500-1680. Topics include humanist education, Protestant marriage, Petrarchan and neoplatonic literature, female monarchy, the querelle des femmes. Major figures include Elizabeth I, Pembroke, Cary, Wroth, Lanier, Philips, Newcastle, Behn, Makin, and Astelle. —P. Loscocco

Th 2:10-4:00

2. Colonial Encounters with Native Americans

Consideration of texts describing encounters between British colonists and Native Americans. We will be particularly concerned with the ways that these encounters are interpreted, and with colonial writers' attempts to reconcile their religious piety with their experience as colonists. Authors include Roger Williams, Mary Rowlandson, Powhatan, Thomas Shepard, and John Mason. —L Gordis
Th 4:10-6:00

3. Writers on War

Perceptions of problematic wars: glorification, questioning, rage, and despair. Male and female voices in drama, poetry, autobiography, and fiction. The Trojan War, British writing about World War I, and Vietnam. —C. Brown
W 4:10-6:00.

4. Issues of History and Memory in American Writing

Consideration of some ways in which American authors and their characters present their culture's past: How do we remember (and "disremember") the historical events that shape our lives? Readings by Jorge Luis Borges, Shirley Williams, Kenneth Burke, Mary McCarthy, Ralph Ellison, William Faulkner, Ishmael Reed. —R. O'Meally
Tu 2:10-4:00

5. Disintegrations

The coming-apart of structures of coherence—poetic language, the family, narrative sequence, ego or selfhood, gender, civilization, Truth—from mid-Victorian England to the 20th century. —C. Plotkin
Tu 4:10-6:00

6. Modern

Modernism and the modern sensibility in poetry and prose: Baudelaire, Yeats, Eliot, Stevens; Lawrence, Joyce, Woolf, Colette, Sartre, Beckett. —E. Dalton
M 2:10-4:00

ENG BC 3999x, y Independent Study

Senior majors who wish to substitute Independent Study for one of the two required Senior Seminars should consult the department chair. Permission is given only to students who present a clear and well-defined topic of study, who have a department sponsor, and who submit their proposals well in advance of the semester in which they will register.
Permission of the instructor and of the department chair are required.
4 points.

HUM V 3003x- V 3004y Readings in European and American Literature and Philosophy of the 19th and 20th Centuries

New visions of self, society, and God. Passion, anxiety, and faith. The reconstruction of moral, aesthetic, and cultural values. First-semester texts include: Wordsworth, Hegel, Whitman, Balzac, Dickens, Kierkegaard, Dostoevsky, Dickinson, Flaubert, Ibsen, Nietzsche. Second-semester texts include: Freud, Proust, Rilke, Duras, Lispector, Woolf, Colette, Camus, Artaud, Lawrence, Márquez. —x: R. Gustafson; y: M. Jaanus
[Note: Does not count toward English major.].
Prerequisite: Grade of B or better in HUM C 1001-1002 or permission of the instructor.
3 points. M W 1:10-2:25 III H

Writers on Writing at Barnard

A summer workshop program designed for highly motivated students who want to study closely with distinguished professional writers. Classes in Fiction, Nonfiction, Poetry, Writing for Young Readers, and Autobiography/Memoir will meet twice a week during the month of June. Two credits offered per course. Limited enrollment. Individual conferences with the instructor. Applications available in the Office of Special Academic Programs.

ENVIRONMENTAL SCIENCE

334 Milbank Hall

854-5120, 3589

Associate Professor: Stephanie Pfirman (Chair)

Lecturers: Peter Bower, Eric Katz

Laboratory Associate: Joseph Liddicoat, Lila Hicks

Environmental Science provides a scientific basis for management of earth systems. It focuses on the interaction between human activities, resources and the environment. As human population grows and technology advances, pressures on earth's natural systems are becoming increasingly intense and complex. Environmental Science is an exciting field, where science is used to best serve society.

The curriculum recognizes the need for well-trained scientists to cope with balancing human requirements and environmental conservation. Majors acquire an understanding of earth systems by taking courses in the natural sciences, as well as courses investigating environmental stress. Students learn to critically evaluate the diverse information necessary for sound environmental analysis. Courses foster an interdisciplinary approach to environmental problem-solving.

Students are encouraged to participate in internships and field programs leading to preparation of their senior thesis. Opportunities are available for research projects with staff at one of the many research institutions in the New York area. Advanced students may also work as Teaching Assistants in introductory courses.

REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002. *Advanced courses in Environmental Science or another related science may be substituted for this requirement with permission of the chair.*
- II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.
- III. Four courses to be selected from the following:

ENV BC 3015	<i>Chemical Cycles in the Environment</i>
ENV BC 3016	<i>Environmental Measurements</i>
ENV BC 3019	<i>Energy Resources</i>
ENV BC 3020	<i>Renewable Resources</i>
ENV BC 3022	<i>Environmental Case Studies</i>
ENV BC 3030	<i>The Atmosphere: Meteorology and Air Pollution</i>
ENV BC 3031	<i>Climate: Present, Past and Future</i>
ENV BC 3032	<i>Global Land Use and Habitability</i>
ENV BC 3035	<i>Environmental Hazards and Disasters</i>
ENV BC 3039	<i>Environmental Impacts of Development</i>
ECO BC 3039	<i>Natural Resource and Environmental Economics</i>

Graduating seniors are required to submit a report on an environmental research project. This may be done in conjunction with the Environmental Science Senior Seminar 3800, Environmental Science BC 3997/3998 or as an extension of another course.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required: Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

For a complete, updated list of courses see the department at the beginning of the semester.

ENV BC 1001x, 1002y **Environmental Science**

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban life-styles on planetary and regional equilibria. *Autumn Term:* physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. *Spring Term:* ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future. —P. Bower
Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited. Students must sign up for lab sections in 331 Milbank during the program planning period of the previous term. Laboratory fee \$30. 4.5 points. Lecture: M W 11:00-12:15
Laboratory: One session of 3 hours per week TBA.

ENV BC 3015y **Chemical Cycles in the Environment**

A detailed study of the cycles of chemical species in the environment focusing on the carbon cycle. Emphasis will be placed on human-induced perturbations of natural cycles.—W. Broecker
Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor. Alternate years. 3 points. Hours TBA.

ENV BC 3016x **Environmental Measurements**

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods. —R. Anderson, D. Colodner
Prerequisites: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students. 4 points. Lecture: Th 10:35-12:15
Laboratory: F 10:00-1:50

ENV BC 3019x **Energy Resources**

Evaluates energy sources, present and future demand, and national and international resources. Assesses environmental impacts and evaluates

economic and policy implications of energy production and use. —P. Bower, S. Pfirman
Prerequisites: One year college science or permission of the instructor. Alternate years. 3 points. M W 2:40-3:55

ENV BC 3020y **Renewable Resources**

3 points. Not offered in 1993-94.

ENV BC 3025y **Hydrology and Oceanography**

3 points. Not offered in 1993-94.

ENV BC 3022y **Environmental Case Studies**

3 points. Not offered in 1993-94.

ENV BC 3030x **The Atmosphere: Meteorology and Air Pollution**

Introduction to atmospheric science. Provides an understanding of basic processes controlling the structure and dynamics of the atmosphere, general atmospheric circulation, and weather. Presents sources, transport and effects of air pollution on regional and local scales. —A. DelGenio
Prerequisite: 1 year college science or permission of the instructor. 3 points. M W 11:00-12:15

ENV BC 3031y **Climates: Present, Past and Future**

Description of Earth's climate and how it has changed through time. Potential impacts of global warming on Earth systems are explored. —S. Pfirman
Prerequisite: 1 year college science or permission of the instructor. 3 points. M W 11:00-12:15

ENV BC 3032x **Global Land Use and Habitability**

Humans have transformed their terrestrial environment since paleolithic times. Focus is on physical processes involved in human — environment interactions, and exploring contributory societal aspects. Guidelines for sustainable development are defined using present and past examples of environmental use and abuse. —C. Rosenzweig
3 points. Tu Th 9:10-10:25

ENV BC 3035x **Environmental Hazards and Disasters**

Alternate years. 3 points. Not offered in 1993-94.

ENV BC 3039y

Environmental Impacts of Development
3 points. Not offered in 1993-94.

Environmental Science-Philosophy
ESP BC 3025y
Ethics and Environment

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law. —E. Katz
Limited to 25 students.
3 points. Th 2:40-5:10

ENV BC 3800y
Environmental Science Senior Seminar
Acquaints students with current environmental concerns. Discussions and class investigations revolve around topics presented by guest speakers and students. Students share thesis research experiences and results and learn about opportunities for graduate research as well as career opportunities in academia, government and advocacy organizations. —S. Pfirman
Limited to 12. Senior majors and juniors with permission of the instructor.
4 points. Th 2:10-4:00

ENV BC 3997x, 3998y
Senior Essay
Research under the supervision of a faculty member for the purpose of preparing the senior thesis. The thesis may be completed in a single semester or over both semesters of the senior year. —Staff
Variable points with a maximum total of four.
Hours TBA.

ENV BC 3999x, ENV BC 3999y
Problems and Projects in Environmental Science
Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty. —Staff
Permission of the chair required.
Variable points to a maximum of 6. Hours TBA.

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Barnard environmental science department and check the Columbia Bulletin for more information on these and additional advanced level courses.

GEY V 1001y, V 1401y
Dinosaurs and the History of Life
—P. Olsen
3-4 points.

GEY V 1011x, 1012y, V 1411x, 1412y
Introduction to Earth Sciences, I and II
—K. Hunkins, C. Langmuir, J. Hays
3-4 points.

GEY S 1021x
Physical Geology
—P. Bower
5 points.

GEY S 1022y
Historical Geology
—P. Bower
5 points.

GEY V 1053y
Planet Earth
—Instructor TBA.
3 points.

GEY V 3002y
The Design and Maintenance of a Habitable Planet
—P. Froelich
3 points.

GEY V 3003y
The Earth's Climate
—A.L. Gordon
3 points.

GEY W 3010x, y
Field Geology
—Staff
1-3 points.

H

FIRST-YEAR SEMINAR

401b Barnard Hall

854-2101

This program is supervised by the First-Year Seminar Committee:

Professor of Russian: Marina Ledkovsky

Professor of Political Science: Dennis Dalton

Professor of History: Rosalind N. Rosenberg

Assistant Professor of Economics: Cecilia Conrad

Associate Professor of English: James Basker¹ (Director)

Assistant Professor of English: Timea Szell (Acting Director)

¹Absent on leave 1993-94.

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors: Sally Chapman (Chemistry), Hubert Doris (Music), Helene Foley (Classics), Morton Klass (Anthropology), Joseph Malone (Linguistics), Richard Pious (Political Science), Jane Rosenthal (Art History), Mirella Servodidio (Spanish).

Adjunct Professor: Theresa Rogers (Sociology)

Associate Professors: Randall Balmer (Religion), Irene Bloom (Asian and Middle Eastern Cultures)

Assistant Professors: Antonella Ansani (Italian), Catharine Coats (French), Peter Connor (French), Kate Cooper (Religion), Celia Deutsch (Religion), Lisa Gordis (English), Eric Huberman (Asian & Middle Eastern Cultures), Joel Kaye (History), Noa Latham (Philosophy), Catharine Nepomnyashchy (Russian), Herbert Sloan (History), Timea Szell (English), Lisa Tiersten (History), John Vitkus (Psychology)

Senior Associates: Marvin Shulman (German)

Lecturers and Other Faculty: Vilma Bornemann Caraley (Spanish), Dorothy Denburg (Dean of the College), Margaret Ellsberg (English), John Pagano (English), Sanya Popovic (Political Science), Quandra Prettyman (English), Flora Schiminovich (Spanish)

Purpose and Structure

Every Barnard first-year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through a close examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, First-Year Seminars should provide entering Barnard students with an early sense of community.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods.
- Each will have its enrollment limited to 20 or fewer students.
- Reading assignments will consist of a maximum of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a minimum of an assignment every other week.

These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.

- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of thirty seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-Year Seminars are described in the First-Year Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1116x

Women and the Fantastic in Literature

An examination of the fantastic in literature specifically as the topic relates to women's experience. Emphasis on the use of the fantastic to explore concepts of identity and human relationships, with special attention to sources in oral tradition and the creation and exploitation of myth and legend. Readings include:

- Bruno Bettelheim, *The Uses of Enchantment*
- Brothers Grimm, selected fairy tales
- Mary Shelley, *Frankenstein*
- Freud, "The Uncanny"
- Toni Morrison, *Beloved*
- Maxine Hong Kingston, *The Woman Warrior*
- Stories by Tatiana Tolstaya, Selma Lagerlof,
- American Indian women, Zora Neale Hurston,
- and E.T.A. Hoffman.

—C. Nepomnyashchy, Russian Department
Autumn Tu Th 4:10-5:25

FSM BC 1127x

What I Want What I Can

A search into the congruence of desire and fulfillment; how individuals adapt to forces — social, political and religious pressures for conformity, demands from loved ones — that compel them to alter their expectations. Readings include:

- Shakespeare, *The Tempest*
- Gustave Flaubert, *Madame Bovary*
- The Diary of Anne Frank*
- Henry James, *The Beast in the Jungle*
- Emily Bronte, *Wuthering Heights*
- Jean Renoir, *La Grande Illusion*
- Virginia Woolf, *Mrs. Dalloway*
- The Pillow Book of Sei Shonagon*
- Hubert Doris, Music Department
Autumn Tu Th 10:35-11:50

FSM BC1130x

Myths of Maternity

An examination of the ways that the figure of the mother has been constructed in literature and culture. Special emphasis will be placed on the relation between mother and daughter. Readings include:

- The Homeric Hymn to Demeter
- The Book of Ruth*
- Euripides, *Electra and Medea*
- The Protoevangelium of James, excerpts from J. de Voragine, *The Golden Legend*, and visual materials on the cult of the Virgin Mary
- Apuleius, "Amor and Psyche"
- Madame de Lafayette, *The Princess of Cleves*
- Virginia Woolf, *To the Lighthouse*
- Toni Morrison, *Beloved*
- Maxine Hong Kingston, *The Woman Warrior*
- Alice Walker, "Everyday Use"
- Films: *A Dream of Passion*, *Now Voyager*, and *A World Apart*
- Excerpts from Sigmund Freud, Nancy Chodorow and Adrienne Rich.

—H. Foley, Classics Department
Autumn M W 11:00-12:15

FSM BC 1133y

The Teratological Text: Representations of the Other as Monster

An examination of modern writers who have portrayed the human subject as monstrous, subhuman, demented and fragmented. Emphasis will be placed on the issues of identity and difference, alterity and alienation. Readings include:

Shelley, *Frankenstein*

Mann, *Death in Venice*

Eliot, *The Four Quartets*

McCullers, *The Member of the Wedding*

Freud, *Group Psychology and The Analysis of the Ego*

Selections from Homer (*The Odyssey*), Spenser

(*The Faerie Queen*), Gogol ("The Nose"), Joyce

(*Dubliners*) and Beckett (*Texts for Nothing*)

Kafka, "The Metamorphosis"

—P. Connor, French Department

Spring M W 6:10-7:25

FSM BC 1136x

History and Human Nature

How are perceptions of Nature and the natural world connected to conceptions of human nature and human potentiality? How have these linked perceptions changed over time? We will draw from Classical, Christian, Enlightenment, and Modern writings to answer these questions. Readings include selections from *The Bible*, Marcus Aurelius, St. Augustine, Catherine of Siena, Rousseau, Mary Shelley, Thoreau, and contemporary ecological thought. —J. Kaye, History Department

Autumn Tu Th 2:40-3:55

FSM BC 1137y

The Summons to Adventure

Encounter with the marvelous and otherworldly as a call to adventure. The individual's quest for spiritual fulfillment, for recognition of and relationship to the agencies that shape human destiny. Transformations of romance and its reemergence in modern fantasy. Readings include *The Bacchae*, *Sir Gawain & the Green Knight*, *Hamlet*, romantic poetry, *Frankenstein*, *Alice in Wonderland*, *Their Eyes Were Watching God*, *The Woman Warrior*, Tolkien, Le Guin, Garcia Marquez. Paintings by Turner, Friedrich, Dore. —J. Pagano, English Department

Spring M W 4:10-5:25

FSM BC 1139y

Self-Concepts: Writing Identity

An exploration of how the self is conceived and described, in which we will read and discuss autobiographical, fictional, and non-fictional texts by writers such as Freud, Rousseau and Emily Dickinson. Strategies for articulating subjectivity will be analyzed. How does a text which

talks about the self differ from those which do not? How does "self-concept" change and evolve due to cultural context? Is there a "grammar" of selfhood? Does selfhood "make sense"? What does selfhood mean in our era? Readings include:

Freud, *The Interpretation of Dreams*

Rousseau, *The Confessions*

Updike, *Self-Consciousness*

Charlotte Bronte, *Jane Eyre*

Iris Murdoch, *The Sacred and Profane Love Machine*

Emily Dickinson, Selected poetry

Film: "The Decline and Fall of the American Empire"

—C. Coats, French Department

Spring M W 11:00-12:15

FSM BC 1140y

Literary Madness

An examination of the controversy over current perceptions of insanity, defined by some as illness, by others as primarily a social construct. We will read several arguments about insanity, and consider them as they illuminate and are illuminated by literary representations of madness. We will pay close attention to narrative strategies used to depict madness, and to what these strategies suggest about madness as social and psychological pathology. Readings include:

Euripedes, *The Bacchae*

Shakespeare, *King Lear*

Bronte, *Jane Eyre*

Rhys, *Wide Sargasso Sea*

Gilman, *The Yellow Wallpaper*

Gogol, "The Diary of a Madman"

Yamamoto, "The Legend of Miss Sasagawara"

—L. Gordis, English Department

Spring, M W 11:00-12:15

FSM BC 1141x

The Idea of Love in the Western World

Using literary, socio-historical, philosophical and psychoanalytic perspectives, this course will analyze some seminal works that have contributed to the development of western amatory discourse. We will discuss different images of western love such as Eros, Agape, Narcissus, Don Juan and Romeo and Juliet. Readings will include: Plato's *Symposium*, poetry by Sappho, *The Song of Songs*, *Tristan and Isolde*, Jane Austen's *Persuasion*, Marguerite Duras' *The Lover*, and Gabriel Garcia Marquez's *Love in the Time of Cholera*. —F.

Schiminovich, Spanish Department

Autumn, M W 4:10-5:25

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1203x

The Crisis of Authority

An examination of the authority relationship between rulers and ruled, and its collapse. The seminar will consider how authority is accepted, confronted, confined and reconstituted. Authors and readings include:

Orwell, 1984

Plato, *The Republic*

Machiavelli, *The Prince*

Rousseau, *The Social Contract*

Martin Luther King Jr., Vaclav Havel, Sissela Bok,

Adam Michnik, Cheryl Walker, Aung San Suu

Kyi, and others.

—R. Pious, Political Science Department

Autumn M W 2:40-3:55

FSM BC 1216y

Revolution: Locke to Luxembourg

Close reading of revolutionary and counter-revolutionary texts from the seventeenth through the twentieth century. This seminar examines revolutions as debates among competing points of view, with emphasis on the ways in which the language of revolution is challenged and transformed in the course of those debates. Readings include:

Thucydides, *The Peloponnesian War* (selections)

Locke, *Two Treatises on Government*

Paine, *Common Sense and The Rights of Man*

Burke, *Reflections on Revolution in France*

Wollstonecraft, *Vindication of the Rights of Woman*

Lenin, *What is to Be Done?*

Luxembourg, "Leninism or Marxism?"

Kollantai, "Women and the Revolution."

—H. Sloan, History Department

Spring M W 2:40-3:55

FSM BC 1228x

Ethnicity and Social Transformation

An examination of how Americans have imagined social hierarchies and ethnic identities, from the WASP- dominated society of the 1800s to the strong emergence of other ethnic groups in the 20th century. Authors include: Edith Wharton, F. Scott Fitzgerald, James Baldwin, E. L. Doctorow, Bernard Malamud, Toni Morrison, Amy Tan, Louise Erdrich. —M. Ellsberg, English Department

Autumn M W 1:10-2:25

FSM BC 1236y

The Tyranny of the Majority

An examination of the ways in which women, homosexuals, racial and religious minorities are oppressed in a democracy. Arguments that have been advanced in justification of such oppression and in providing safeguards against it. Readings include: selections from de Tocqueville, *Democracy in America*; James Madison, *The Federalist Papers*; Wollstonecraft, *A Vindication of the Rights of Woman*; Mill, *On Liberty* and *The Subjection of Women*; selected U. S. Supreme Court rulings; and various works of literature. —N. Latham, Philosophy Department

Spring M W 11:00-12:15

FSM BC 1237x

Rhetoric and Gender

This course explores the ways men and women represent masculinity and femininity, and the uses to which such representations can be put. We will pay attention to the development of rhetorical technique from antiquity, as well as to historical and contemporary American variations. Readings will include: Demosthenes, Plato, Cicero, Quintillian, Plutarch, Heloise and Abelard, Shakespeare, Gibbon, Wollstonecraft, King, *The New York Times*. —K. Cooper, Department of Religion

Autumn M W 2:40-3:55

FSM BC 1238y

Dangerous Women: Perceptions of Feminine Deviance in Modern Europe

An interdisciplinary study of "dangerous" women and the discourses—scientific, psychological, legal—which emerged to describe and to discipline them in 19th-and-20th century Europe. Spendthrifts and adultresses, courtesans and *femme fatales*, shoplifters and murderesses are among the types we will use to explore gender relations, normative conceptions of femininity, and male fantasies about women in this period.

—L. Tiersten, History Department

Spring M W 1:10-2:25

FSM BC 1239y

Principle and Pragmatism

An examination through time—in literary works, philosophic thought, and contemporary life—of the factors that influence individual choices when pragmatic interests conflict with moral principles or cultural values. Readings include:

Sophocles, *Antigone*

Shakespeare, *King Lear*

Pedro Calderon de la Barca, *Life is a Dream*

André Gide, *The Immoralist*

Henry James, "The Liar"

Toni Morrison, *Sula*

FIRST-YEAR SEMINAR

Manuel Puig, *The Kiss of the Spider Woman*
Mary Gordon, *Final Payments*
Supplementary readings will include selections from *The Bible*, Plato, Aristotle, Niccolò Machiavelli, Miguel de Cervantes, Jeremy Bentham, Immanuel Kant, William James, John Dewey, and Sissela Bok.
—V. Bornemann Caraley, Spanish Department
Spring Tu Th 10:35-11:50

III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship. Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Homer, *The Odyssey*
Sophocles, *Antigone*
Homer, *Hymn to Demeter*
Kalidasa, *Sakuntala*
William Shakespeare, *As You Like It*
Leo Tolstoy, *Anna Karenina*
Virginia Woolf, *A Room of One's Own*
Alice Walker, *The Color Purple*
Lyric Poetry by Sappho, early Buddhist nuns,
Anna Akhmatova, Sylvia Plath, Adrienne Rich, Audre Lorde.
Selected essays by Nancy Chodorow, Carol Gilligan, Sherry Ortner.

FSM BC 1309x Women in Literature and Culture

Special Texts:
Freud, *Dora: Analysis of a Case*
History of Hysteria
Jeanette Winterson, *The Passion*
Zora Neale Hurston, *Their Eyes Were Watching God*
Chaucer, "Wife of Bath's Tale"
Maxine Hong Kingston, *The Woman Warrior*
—T. Szell, English Department
Spring Tu Th 6:10-7:25

FSM BC 1310y Women in Literature and Culture

Special Texts:
Lope de Vega, *Fuente Ovejuna*
Garcia Lorca, *Blood Wedding*,
Yerma,
The House of Bernarda Alba
E. Tusquets, *The Same Sea as Every Summer*
Huraki Murakami, "Sleep"
—M. Servodidio, Spanish Department
Spring Tu Th 2:40-3:55

FSM BC 1313y Women in Literature and Culture

Special Texts:
The Bible
Toni Morrison, *Beloved*
Maxine Hong Kingston, *The Woman Warrior*
Leslie Silko, *Ceremonies*
Anzia Yezierska, *Bread Givers*
Anaya, *Bless Me, Ultima*
—C. Deutsch, Religion Department
Spring Tu Th 4:10-5:25

FSM BC 1315y Women in Literature and Culture

Special Texts:
Jamaica Kincaid, *Annie John*
Anzia Yezierska, *Bread Givers*
Amy Tan, *The Joy Luck Club*
Toni Morrison, *Beloved*
—D. Denburg, Dean of the College
Spring Tu Th 4:10-5:25

FSM BC 1319x Women in Literature and Culture

Special Texts:
Isabelle Eberhardt, *The Passionate Nomad*
E.M. Forster, *A Room with a View*
Tillie Olsen, *Silences*
and selected other readings
—Q. Prettyman
Autumn M W 11:00-12:15

FSM BC 1320y Women in Literature and Culture

Special Texts:
Christine de Pisan, *City of Women*
Norma Broute, *Feminism and Art History*
Anne Higgonet, *Berthe Morizot*
Selected paintings by women artists
—J. Rosenthal, Art History Department
Spring Tu Th 2:40-3:55

IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1408x

The Person in Literature and Life

This seminar examines different authors' conceptions of the internal and social forces that shape an individual's unique personality. Discussions will focus on the adaptiveness of particular personalities within the context of their social environments.

Readings include:

- Shakespeare, *Coriolanus*
- Mary Shelley, *Frankenstein*
- Oscar Wilde, *The Picture of Dorian Gray*
- Alice Walker, *The Color Purple*
- Amy Tan, *The Joy Luck Club*
- Barbara Kingslauer, *The Bean Trees*
- Anthony Burgess, *A Clockwork Orange*
- Tennessee Williams, *A Streetcar Named Desire*

—J. Vitkus, Psychology Department

Autumn Tu Th 2:40-3:55

FSM BC 1412x

Illness and Society

Analysis of the experience of illness and of the social and ethical values surrounding it. Eastern and Western literature is read for an understanding of the responses to illness by the patient, family and friends, and physicians. Class discussion will extend to the role of self-help efforts, of nutritional, herbal and holistic approaches to care. Texts include:

- Gilman, *The Yellow Wallpaper*
- Tolstoy, *The Death of Ivan Ilyich*
- Mann, *The Magic Mountain*
- Camus, *The Plague*
- The Book of Job*
- Rong, *At Middle Age*
- Logan, *Motherwit: Alabama Midwife's Story*
- Kesey, *One Flew Over the Cuckoo's Nest*

—Theresa Rogers, Sociology Department

Autumn M W 1:10-2:25

FSM BC 1425x

The Politics of Identity

An examination of the quest by individuals and groups to (re)gain their ethnic, racial and religious identities with a focus on methods of empowerment, group affirmation, and the potentially destructive consequences of such assertion of identity. Cases to be examined: Civil Rights/Black Power in the U.S.; Gandhi's non-violence vs. con-

tinuing ethnic violence in India; The Palestinian/Israeli conflict in the Middle East; the role of women in separatist/terrorist movements.

Readings include:

- Gandhi, *Non-Violence in Peace and War*
- Bhagwat Charan, "The Philosophy of the Bomb"
- Toni Morrison, *The Bluest Eye*
- The Autobiography of Leila Khaled*
- Adolf Hitler, *Mein Kampf*
- Malcolm X *Speaks*

Eileen MacDonald, *Shoot the Women First*

Eric Hobsbawm, *Nations and Nationalism*

Benedict Anderson, *Imagined Communities*

—S. Popović, Political Science Department

Autumn M W 11:00-12:15.

FSM 1426y

Portraits of the Artist

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Supplementary readings will include the work of Luigi Pirandello, James Joyce, and Hermann Hesse.

—M. Shulman, German Department

Spring M W 2:40-3:55

FSM 1427x

Thinking About Science

Examinations of various issues at the interface between science and non-science: how scientists perceive the world and how non-scientists perceive science, science and World War II, fraud and blunder in science, scientific biography and essays on science, and women and science.

C.P. Snow, *The Two Cultures and The Scientific Revolution*

T. Kuhn, *The Structure of Scientific Revolutions*

R. Rhodes, *The Making of the Atom Bomb*

P. Levi, *The Periodic Table*

C. Djerassi, *Cantor's Dilemma*

E.F. Keller, *Reflections on Gender and Science*

Essays by F. Dyson, S.J. Gould, and L. Thomas

—S. Chapman, Chemistry Department

Autumn Tu Th 10:35-11:50

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1518y

Communication and Pseudo-communication through Language

Communicational successes and failures across groups of humans. Literature by and about the oppressed, the disinherited, the marginalized. Critical

FIRST-YEAR SEMINAR

analysis of language abuses innocently or maliciously apt to foment prejudice, paranoia, or at the very least misunderstanding. Readings include portions of:

Louise Erdrich, *Love Medicine*

S.I. & A. R. Hayakawa, *Language in Thought and Action*

Oscar Hijuelos, *The Fourteen Sisters of*

Emilio Montez O'Brien

Joseph Malone, *The Science of Linguistics in the Art of Translation*

Kate Millet, *The Loony-Bin Trip*

Toni Morrison, *The Bluest Eye*

Bharati Mukherjee, *The Tiger's Daughter*

Bernard Shaw, *Saint Joan*

R.A. Sasaki, *The Loom and Other Stories*

Deborah Tanner, *You Just Don't Understand*

—J. Malone, Linguistics Department

Spring Tu Th 10:35-11:50

FSM BC 1519y

Perceptions of the Alien

An exploration of how the “other” — those not like “us” — are perceived: for example, foreigners, “ethnics,” the other gender. The class will discuss portrayals of such aliens in fiction, in scholarly literature, and in other accounts. Readings include:

Shakespeare, *Othello*, *The Merchant of Venice*

Forster, *A Passage to India*

Anita Desai, *Baumgartner's Bombay*

Henrik Ibsen, *A Doll House*

Selections from Margaret Mead, James Baldwin,

Nora Ephron, Laura Bohannon, Morton Klass and others.

—M. Klass, Anthropology Department

Spring M W 2:40-3:55

FSM BC 1523x

Ancient Cultures, Timeless Questions: Classics of Moral Thought in Greece and China

A cross-cultural exploration of views of the human condition found in major works of moral thought deriving from classical Greece and classical China. The focus is on differing views of the purposes of human existence and of human moral capacity and especially on ideas of the relation between mind and body, thought and feeling. Authors and readings include:

Plato, *Apology*, *Phaedo*, and *The Republic*

Aristotle, *Nicomachean Ethics*

Analects of Confucius

Mencius, Hsün Tzu and others

—I. Bloom, Asian & Middle Eastern Cultures Dept.

Autumn Tu Th 1:10-2:25

FSM BC 1525x

Books with a View: Italy in the Western Imagination

For centuries Italy and its culture have intrigued and fascinated foreign travellers and artists. In this course

we will explore texts written by authors of different nationalities who have chosen Italy as the scene for their creative quest and the setting of cross-cultural encounters. Readings from:

E.M. Forster, *A Room With A View*

Hella Haasse, *The Scarlet City*

Nathaniel Hawthorne, “Rappaccini's Daughter”

Henry James, *Daisy Miller*

Thomas Mann, *Death in Venice*

“Mario and the Magician”

Susan Sontag, *The Volcano Lover*

Stendhal, *The Charterhouse of Parma*

Edith Wharton, “Roman Fever”

—A. Ansani, Italian Department

Autumn Tu Th 6:10-7:25

FSM BC 1526x

Perspectives on America

A survey of various perspectives on the United States—historical, sociological, cultural, geographic, and ethnic—drawing on the vast genre of American travel literature as well as on related works. Readings from:

John Steinbeck, *Travels with Charley*

William Least Heat Moon, *Blue Highways*:

A Journey into America

Robert Pirsig, *Zen and the Art of Motorcycle Maintenance*

Alexis de Tocqueville, *Democracy in America*

Nicholas Lemann, *Promised Land: The Great Black Migration and How It Changed America*

Jonathan Raban, *Hunting Mister Heartbreak: A Discovery of America*

John McPhee, *Encounters with the Archdruid*

—R. Balmer, Religion Department

Autumn M W 6:10-7:25

FSY BC 1527y

Finding One's Calling: Cross-Cultural Perspectives on Vocation

Through autobiography, novels, sacred texts, psychological tracts, and philosophical essays we will explore how representative cultural figures have envisioned vocations that allow one to live and act from the most authentic part of one's being and to express one's strongest values, energies, and talents in the world. Readings include:

Analects of Confucius (selections)

Bhagavad Gita

Kierkegaard, “My Point of View as an Author”

Sartre (selected writings)

Max Weber, “Science as a Vocation”

Ralph Waldo Emerson, “Self Reliance”

James Joyce, *Portrait of the Artist as A Young Man*

Eric Erikson, *Identity, Youth and Crises* (selections)

Carol Gilligan, *In A Different Voice*

—E. Huberman, Asian & Middle Eastern Cultures
Spring Tu Th 1:10-2:25

FOREIGN AREA STUDIES

415A Lehman Hall

854-5938

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology: Abraham Rosman

Professor of French: Serge Gavronsky

Assistant Professor of History: Deborah Valenze

deBary Associate Professor in Asian & Middle Eastern Cultures: Irene Bloom

Associate Professor of Russian: Catherine Nepomnyashchy

Professor of German: Gertrud M. Sakrawa

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asian and Middle Eastern Cultures (*Adviser:* Irene Bloom) See page 76.

European Studies (*Adviser:* Deborah Valenze)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).
- B. 10 courses focusing on a country or region to include:
 - Two courses in European History;
 - Two courses in the literature or cultural studies of one country in the original language;
 - Two semester senior projects under the direction of the program adviser or an adviser in the minor field;

Four courses outside the field of concentration dealing with the selected country or region:

FOREIGN AREA STUDIES

(The following list is only a sample selection of courses that may be applied to the major.)

Anthropology V 10105y

Anthropology V 3028

Anthropology V 3100

Anthropology V 3038

Art History V 3475

Art History BC 3521

Economics BC 3030

Economics BC 3041

History BC 1011/1012

History BC 3039

History BC 3410

Political Science BC 3007

Political Science BC 3013/3014

Political Science V 3505

Religion V 1101

Religion V 3501

Sociology V 3100

French courses in Culture and Literature.

German courses in Culture and Literature.

Italian courses in Culture and Literature.

Spanish courses in Culture and Literature.

Multiculturalism:

Ways of Looking at Other Cultures

Cultural Contact:

Archeological Ethnohistorical Approaches

Anthropology of Urban Life

Ethnicity and Race

Art and Culture of the Northern Renaissance

Seventeenth-Century Painting and Public Life in
the Lowlands, 1580-1700

Comparative Economic Systems

Theoretical Foundation of Political Economy

Introduction to European History (recommended
as prerequisites for other history courses)

The Civilizing Process

The City in Europe

Modern Political Movements

Political Theory

Introduction to Comparative Politics

Introduction to the Study of Western Religion

18th-and 19th-Century Religious Thought

Introduction to Social Theory

See French, page 147

See German, page 156

See Italian, page 168

See Spanish, page 235

French Studies (Adviser: Serge Gavronsky)

German Studies (Adviser: Gertrud Sakrawa)

Latin American Studies (Adviser: Alfred Mac Adam)

See Department of Spanish and Latin American Cultures, page 235.

Russian Regional Studies (Adviser: Catharine Nepomnyashchy)

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

Two courses in Russian or Soviet literature (in translation or Russian);

Two courses in Russian history;

One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);

One course in Soviet politics; and

Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

Professors: Serge Gavronsky (Chair), Renée Geen

Adjunct Assistant Professor: Anne Boyman

Assistant Professors: Catharine R. Coats, Peter T. Connor

Associate: Isabelle Jouanneau-Fertig

Instructors: Laurence C. Lang, Anne Protopappas, Rosie S. Reiss.

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination with a score of 4 or 5; CEEB examinations with a score of 750) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may immediately enroll in literature and culture courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses BC 3007-3019.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad page 41.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Students enrolled in the Senior Essay will take the written part of the Major Examination. The defense of the essay constitutes the oral section of the Major Examination.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

There are three majors available to prospective students in the department:

Language and Literature: This program emphasizes language, culture, and literature of the country.

Translation and Literature: This program perfects students' abilities to translate from French into English and English into French together with a knowledge of French culture and literature.

French Studies: This program emphasizes the socio-economic, political, and historical aspects of language studies as well as the cultural and literary aspects of France and Francophone countries.

In consultation with the adviser of her choice, the student majoring in French may select one of the following options:

FRENCH

Language and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024.

Two language courses chosen from FRE BC 3013-3019.

Two literature courses chosen from BC 3031-3036 and three courses chosen from 3037-3043.

One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

Translation and Literature

10 courses are required for the major:

FRE BC 3021, BC 3022, or BC 3023, BC 3024.

Three language courses chosen from FRE BC 3014-3017.

Four one-term literature courses chosen from the following: BC 3031-BC 3043.

One-term seminar numbered BC 3053 or a Senior Essay in Translation.

French Studies

11 courses are required for the major:

FRE BC 3021, BC 3022 or BC 3023, BC 3024.

Two language courses chosen from FRE BC 3007-BC 3017.

Five one-term Advanced Literature and Culture courses numbered FRE BC 3031-3049.

Two one-term courses in Humanities or Social Sciences selected in consultation with the major adviser.

The student is expected to declare her option by the end of the junior year. Programs may include additional courses in French literature, culture, and language, or in other subjects which vary with the interest of the student.

A student who elects French as part of a combined double, or interdisciplinary major will establish her individualized program with the departments concerned.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

FRE BC 3021, BC 3022, or BC 3023, and BC 3024.

Two language courses chosen from: FRE BC 3007-BC 3017.

Three literature and culture courses chosen from: FRE BC 3031-BC 3049.

COURSES OF INSTRUCTION

LANGUAGE COURSES

For satisfactory completion of the language requirement, student with a C- or below average will have to repeat the course.

FRE BC 1001x, 1002y

Elementary Full-Year Course

Basic elements of French grammar. Oral, writing and reading skills. —Staff

4 points. Students may take either or both of these courses at Columbia.

x, y: Sec. 1 M Tu W Th F 9:00 —R. Reiss

Sec 2 M Tu W Th F 10:00 —R. Reiss

Sec 3 M Tu W Th F 10:00 —A. Protopappas

FRE BC 1102x

Review of Elementary French

Oral and written review of basic grammar and syntax. Reading in modern literature and Francophone literature, free composition, translation. One hour of oral drill is required. —Staff

Course chair: I. Jouanneau-Fertig.

Primarily for students who need further instruction to qualify for the intermediate course. Credit cannot be granted for both BC 1102 and BC 1002 (or its equivalent). Enrollment limited to 20 students per section.

3 points.

Sec. 1. M W F 9:00 —L. Lang

Sec. 2. M W F 11:00 —Instructor T.B.A.

Sec. 3 M W F 12:00 —A. Protopappas

Sec. 4 Tu Th 10:35-11:50 —I. Jouanneau-Fertig

FRE BC 1201x**Intermediate Conversation**

A one-point course intended to improve students' oral proficiency through individual presentations, group projects and exercises in vocabulary building. —A. Protopappas

Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.

1 point. Sec. 1 M 11:00

Sec. 2 Th 12:00

Sec. 3 F 9:00

FRE BC 1202y**Writing Workshop**

A one-point course intended to improve students' writing skills through creative and analytic short papers based on literary and topical assignments. —L. Lang

Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.

1 point.

Sec. 1 M 10:00

Sec. 2 W 10:00

Sec. 3 F 10:00

FRE BC 1203x, y**Intermediate Course I**

Further development of oral and written communication skills. Literary analysis, expository compositions and explication de texte. Readings from modern French and Francophone literatures. —Staff
Course chair: P. Connor

Prerequisites: BC 1001x, BC 1002y, BC 1102x, C 1101-C1102, or an appropriate score on the placement test.

3 points.

x: Sec. 1 M W F 9:00 —P. Connor

Sec. 2 M W F 12:00 —P. Connor

Sec. 3 Tu Th 9:10-10:25 —I. Jouanneau-Fertig

Sec. 4 Tu Th 1:10-2:25 —I. Jouanneau-Fertig

y: Sec. 1 M W F 11:00 —T.B.A.

Sec. 2 Tu Th 9:10-10:25 —I. Jouanneau-Fertig

Sec. 3 Tu Th 1:10-2:25 —I. Jouanneau-Fertig

FRE BC 1204x,y**Intermediate Course II:****French through Literary Analysis**

More advanced work in language skills. Emphasis on literary analysis and explication de texte. Readings taken from the Renaissance to the modern period. —Staff

Course Chair: A. Boyman

Prerequisite: BC 1203 or an appropriate score on the placement test.

3 points.

x: Sec. 1 M W F 10:00 —L. Lang

Sec. 2 M W F 11:00 —L. Lang

Sec. 3 Tu Th 10:35-11:50 —A. Boyman

y: Sec. 1 M W F 9:00 —L. Lang

Sec. 2 M W F 11:00 —L. Lang

Sec. 3 Tu Th 10:35-11:50 —I. Jouanneau-Fertig

Sec. 4 Tu Th 1:10-2:25 —A. Boyman

FRE BC1306x, y**Composition and Conversation**

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes taken from French newspapers and magazines.

3 points. Not offered in 1993-94.

FRE BC 3007y**Commercial-Economic French**

The socio-economic language of contemporary French society. Practice of oral and written communications based on documents from the French press. Students who have completed this course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris.

3 points. Not offered in 1993-94.

FRE BC 3012x**History of the French Language**

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the 20th-century. Analysis and translation of representative texts.

Prerequisite: Satisfaction of the language requirement or the equivalent. Majors preferred.

3 points. Not offered in 1993-94.

FRE BC 3013x**Advanced Composition and Grammar Review**

Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments.

3 points. Not offered in 1993-94.

FRE BC 3014x**Advanced Translation: Literary Texts**

Translation of various styles of prose and poetry from French to English.

3 points. Not offered in 1993-94.

FRE BC 3015x**Advanced Translation into French**

Specific techniques of translation will be studied and applied to various texts (prose, poetry, theatre) and contexts (advertisements, cartoons, song lyrics, subtitles) in order to increase awareness of linguistic resources and expressive possibilities. —R. Geen
Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W 1:10-2:25

FRENCH

FRE BC 3016y **Advanced Conversation**

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, dramatic readings and oral explication de texte.

—A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Tu Th 10:35-11:50

FRE BC 3017x **Advanced Translation: Non-Literary Texts**

Translation of various non-literary styles of prose taken from historical, critical, and journalistic sources.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1993-94.

FRE BC 3018x **Creative Writing**

Intensive November writing workshop emphasizing new approaches to narrative prose and poetry.

Prerequisite: Satisfaction of the language requirement or permission of the chair.

1 point. Not offered in 1993-94.

FRE BC 3019y **Advanced Phonetics**

A detailed study of the major rules of French pronunciation; theoretical linguistic concepts will be followed up with intensive oral drills.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1993-94.

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048 and BC 3049 are conducted in English.

FRE BC 3020x **Special Themes in Modern French Culture and Literature:**

8. Surrealism in Painting and Film

Surrealism from its initial critique of the *status quo* to its recuperation in fashion photography and advertisement. Topics include the politics of sexuality and eroticism; the nature of the pictorial and filmic image and the rhetoric of narration. Theoretical texts by Bataille, Bellmer, Breton, Dali and Ernst. Paintings by Bellmer, Ernst, Dali, Magritte, Fini and Carrington. Films by Buñuel, Duchamp, Léger, Picabia, Clair, Artaud and Man Ray. —S. Gavronsky

Prerequisite: Satisfaction of the language requirement in French. Enrollment is limited to 30 students.
3 points Tu Th 1:10-2:25

9. Jewish Identity in Modern French Literature

3 points. Not offered in 1993-94.

H

FRE BC 3021x, 3022y **Masterpieces of Literature from the Middle Ages to the 20th Century**

A chronological view of French literature through analyses of significant works and currents from the Middle Ages to the 20th century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature.

Spring Term: The Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W 11:00-12:15

H

FRE BC 3021y **Masterpieces of Literature from the Middle Ages to the 20th Century I**

Equivalent of Course BC 3021x but given in the Spring Term. —P. Connor

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 12:00

FRE BC 3022x **Masterpieces of Literature from the Middle Ages to the 20th Century II**

Equivalent of BC 3022y but given in the Autumn Term.

3 points. Not offered in 1993-94.

H

FRE BC 3023x **The Culture and Institutions of France**

An historical analysis of *mentalités* from the Middle Ages through the reign of Louis XIV through symbol, structure and self-presentation. Class discussions will center on artifacts, images and allegories in cathedral windows, coats of arms, the palace of Versailles. Readings include cultural and institutional documents, *Le Retour de Martin Guerre*, essays by Montaigne and contemporary critical writings by Darnton, Barthes and Braudel. —C. Coats

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 10:00

H

FRE BC 3031x**The Middle Ages**

Development and evolution of literary expression in France from the Crusades through the High Middle Ages. Readings and discussion focus in poetry, drama and prose. Additional units: Arthurian legends; love letters of Heloise and Abelard; the first French woman 'novelist' Christine de Pisan.

—C. Coats

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W F 11:00 H

FRE BC 3032y**Humanism and Reformation in 16th-Century France**

Examination of the major literary, philosophical, and theological currents of the 16th century. —C. Coats
Prerequisite: BC 3021, BC 3022, BC3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. III H

FRE BC 3033y**Renaissance, Baroque and Classical Poetry**

Playing with poetry: a consideration of Renaissance poetry as a corpus to be deciphered. Topics also include baroque allegories, and classical *préciosité*. Readings include poets of the Pléiade, Libertine poets and classical works by Boileau and La Fontaine. —C. Coats

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

3 points. M W F 10:00 III H

FRE BC 3034x**French Classical Literature and Culture**

Focus on the literature and culture of the 17th century.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3035y**Eighteenth-Century French Fiction**

Courses and discourses of the heroine in selected 18th-century novels.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3036x**The Age of Enlightenment**

The challenge of traditional ideas on government, religion, ethics, and aesthetics in 18th-century France.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3037y**Nineteenth-Century French Poetry**

Poems by Lamartine, Hugo, Baudelaire, Rimbaud, and Mallarmé.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3038x**The Nineteenth-Century French Novel**

Evolution of the novel, aesthetics of Romanticism, Realism, Naturalism, and Symbolism.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3039y**Twentieth-Century French Theater**

Tradition and innovation in major French dramatists.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRE BC 3040x**Twentieth-Century French Fiction**

Topics will include the theory of the gratuitous act, literature and the rise of Fascism, war and the literature of commitment, erotic violence. Authors to be read include Gide, Mauriac, Bataille, Sartre, Duras and Beckett. —P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

3 points. M W F 10:00

FRE BC 3041x**Twentieth-Century French Thought**

The definition of the Other has been defined both from the outside as well as by the group itself. The first half of the semester will focus on the definition of the Jew from the 1880's through Le Pen. The second part of the semester will focus on French-speaking North Africans (Maghrebins) and the manner in which their writers and critics have defined themselves. Authors include Drumont, Céline, Sartre, Kristéva, Fanon, Memmi, Yacin and Djébar.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94. H

FRENCH

FRE BC 3042x

Twentieth-Century French Poetry

A close reading of some of the major long poems of the century with particular attention paid to themes, the figure of the author/narrator, definitions of an epic poetics as well as relation to past epic texts both classical and contemporary, French, European and American. Poets include Cendrars, Tzara, Michaux, Saint-John Perse, Césaire, Ponge, Mansour, Albiach and Pleynet. —S. Gavronsky

Prerequisite: FRE BC 3021, 3022, 3023, 3024 or permission of the instructor.

3 points. Tu Th 10:35-11:50

H

FRE BC 3043y

Women in Theory and in Fiction

Works of theory and of fiction written by women will be read in the context of the literary and theoretical movements which have emerged in France since the end of World War II.

Authors include de Beauvoir, Sarraute, Duras, Kristéva, Cixous, and Irigaray.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent.

3 points. Not offered in 1993-94.

H

FRE BC 3045y

The Short Story in France

Short prose fiction (contes, nouvelles, récits, textes) will be read in a literary as well as historical context, and studied as ground for experimentation in the meaning of fiction. Authors include Perrault, Voltaire, Flaubert, Maupassant, Colette, Vian, Beckett and Robbe-Grillet. —R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

3 points. M W 1:10-2:25

H

FRE BC 3046y

Political-Economic Aspects of Contemporary France

Major politico-institutional and socio-economic crises and debates in France from the postwar to the present. Topics to include the legacy of the 30's and Vichy; the state as agent of modernization; loss of the French empire; May 1968 immigration and the European challenge of 1993. —A. Protopappas

Prerequisite: Satisfaction of language requirement and one advanced French course or the equivalent.

3 points. M W F 11:00-11:50

FRE BC 3047y

Topics in French and Francophone Cultures

6. Censorship and Literature in France from the ancien régime to World War II

Course taught in English with readings in English and French; papers in English.

Prerequisites: Satisfaction of language requirement and one advanced French course or permission of the instructor.

3 points. Not offered in 1993-94.

H

7. Négritude

Origins, evolution, and current critical interpretations of Négritude. Topics will include historical formulation of racism, theory of Africanity, the Harlem Renaissance as model, impact of Marxism and Surrealism as well as the ideological connotations of Creole and the place of women in Francophone African and Antillian literatures. Readings include works by Gobineau, Price-Mars, Hughes, McKay, Césaire, Senghor, Fanon, Sartre, Bebel-Gisler and Simone Schwartz-Bart. —S. Gavronsky

Prerequisite: Satisfaction of the language requirement in French or permission of the instructor.

3 points. Tu Th 1:10-2:25

II H

FRE 3048x

Topics in Theory and Literary Criticism Critical Theory

An introduction to post-structuralism theory focusing on the question of the subject and its interpretations and transformations. Selected readings from Lacan, Foucault, Deleuze, Derrida and Cixous. —A. Boyman

Course taught in English with readings in English and French; papers in English.

Prerequisite: Satisfaction of the language requirement in French or permission of the instructor.

3 points. Tu Th 1:10-2:25

FRE BC 3049x

France on Film

Films on/of the period from the 1930s to the present focusing on the interplay between history, ideology, and culture.

3 points. Not offered in 1993-94.

II H

SEMINARS

FRE BC 3052x

Seminar in Literature

Written permission of the instructor is required.

4 points. Not offered in 1993-94.

FRE BC 3053y

Seminar in Translation

Focus is on the interplay between theory and practice. Students will both participate in collective translations as well as translate a short book-length work by a contemporary poet. —A. Gavronsky.

Written permission of the instructor is required.

4 points. Tu 4:10-6:00

SENIOR ESSAYS

The Senior Essay may be taken in lieu of the senior seminar only by seniors with an A- average in the department. Written permission of sponsor is required. Normally a one-semester course.

FRE BC 3057x, 3058y

Senior Essay: Literature or French Studies

Research into French or Francophone literatures and cultures. Literature majors will write their essays in French; French Studies majors may write in English.

FRE BC 3059x, 3060y

Senior Essay: Translation

Presentation and translation into English of a French text of significant length and literary or cultural value.

STUDY IN PARIS

Reid Hall Programs

419 Lewisohn Hall. 854-2559

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change. Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: March 1

1. *The Intensive French Language and Civilization Program*. Open to students with two years of college-level French or the equivalent.
2. *The French Studies in the Humanities and Social Sciences Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their courses in the French University system.
3. *The Art History Program*. Open to students in good standing who have completed two years

of college French or the equivalent, and one introductory art history course with grades of B or better.

4. *The Supervised Research Program*. Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French University system and, in addition, must complete a mémoire, a research paper of publishable quality of at least 30 pages in length.
5. *The Film Studies Program*. Open to students who have had at least some exposure to coursework on the history, theory and criticism of film, whether Film Studies majors or not. This program allows them to study French and European cinema from a fresh critical perspective. At least 3 years of college French or the equivalent; 3.0 Grade Point Average; some previous work in Film Studies.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Intensive French Language and Civilization Program*.
2. *The French Studies in the Humanities and Social Sciences Program*.
3. *The Supervised Research Program*.
4. *The Film Studies Program*.

ACADEMIC-YEAR PROGRAMS

Application Deadline: March 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

Courses Offered at Reid Hall in Paris

French H 3003x, y **Phonetics**

—D. Manesse, D. Barret
3 points.

French H 3333x, y **Introduction to Literary Study:** **Medieval to Neo-classical Literature**

—J.Y. Pouilloux, S. Hinglais
Credit is not granted for both BC 3021 and H 3333 (or C 3333 or F 3333).
3 points.

FRENCH

French H3334x, y

Introduction to Literary Study: From the 18th Century to the Present

—J.Y. Pouilloux, S. Hinglais, L. Gaborit

*Credit is not granted for both BC 3022 and H 3334
(or C3334 or F 3334).*

3 points.

French H 3405x, y

Third-year Grammar and Composition, I

—M-M. Charlier

3 points.

French H 3406x, y

Third-year Grammar and Composition, II

—C. Valéro

3 points.

French H 3131x, y

Third-year Conversation I. Aural/Oral Skills: Phonetics and Oral Expression

—M-M. Charlier, C. Valéro

3 points.

French H 3441x, y

Fourth-year Conversation I

—C. de Heredia, M-P. Chatras

3 points.

French H3431x, y

Fourth-year Grammar and Composition, I

—M. Hamon, M. LeCaodic

3 points.

French H 3432x, y

Fourth-year Grammar and Composition, II

—D. van de Velde

Prerequisite: French H3431 or its equivalent.

3 points.

French H 3602x, y

Contemporary French Literature

—J. LeCarne

Credit is not granted for both BC 3041 and H 3602.

3 points.

French H 3625x, y

Literary Analyses of French Culture

Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language. —L. Vernière, N. Huston

3 points.

H

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit. The program offers grammar and composition, conversation, phonetics and literature. Reid Hall assists students in locating housing, including dormitory facilities in the City Universitaire. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. Write or call the Reid Hall Programs office, 412 Lewisohn Hall, Columbia University, New York, N.Y. 10027: (212) 854-2559.

French H 3991x-H 3992y

Supervised Study in the French University System

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.

2 to 15 points each term.

French H 3997x-H 3998y

Supervised Research in France

2 to 6 points each term.

FILM STUDIES

Film H 3031y

Introduction to French Cinema in an International Context: 1954 to the Present

—M. Cerisuelo

3 points.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the Reid Hall Programs Bulletin available at 412 Lewisohn Hall.

Art History H 3320y. *Medieval Art and Architecture.*

Art History H 3359x. *French Architecture, 1750-1930 (in English).*

Art History H 3430x, y. *Renaissance and 17th Century Art and Architecture.*

Art History H 3604x, y. *Seminar on Contemporary French Art.*

Art History H 3993x. *Planning Paris: Urban Form and National Politics in the French Capital from the Enlightenment to the Fall of the Second Empire, 1750-1870 (in English).*

Comparative Literature H 3250x-H 3251y. *Aesthetics I and II.*

History H 2503x, y. *Introduction to French Civilization and Culture.*

History H 3460x. *Intellectual and Social History of Paris.*

Philosophy H 3550x, y. *Aspects of Contemporary French Thought.*

History-Political Science H 3240x, y. *The State and Political Life in France from the Revolution to the Present.*

History-Political Science H 3260y.

The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.

Women's Studies H 3450y. *Contemporary French Thought and Feminist Theory (Seminar).*

Women's Studies H 3550y. *Women and Society in France: History of Women From the 16th to the 20th Century.*

Professor: Gertrud M. Sakrawa (Chair)

Assistant Professor: Sigrid Berka

Lecturer: Regina Ayre

Senior Associate: Marvin Shulman

For organizational purposes faculty teaching German language and literature courses will be included in the Department of German, Italian and Linguistics.

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. In advanced *Conversational German*, BC 3005, idiomatic usage is stressed; items from the German media are used as aids to broaden the students' awareness of current trends and events. In *Advanced German Composition*, BC 3006, writing skills are developed. These two courses may be taken in reverse sequence. BC 3007, 3008 *Business-Economic German I and II* offers two levels of practice in understanding and usage of specialized terminology.

Satisfactory completion of or exemption from BC 1204 is required for enrollment in any of the advanced courses; the sequences in which these should be taken will be determined in consultation with the department.

The following programs are available to prospective students in the German department:

The Major in German Language and Literature:

The courses comprising this program are all taught in German with the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

Requirements: 10 courses

GER BC 3005x (3 pts)	<i>Conversational German and/or</i>
GER BC 3006	<i>Advanced Composition</i>
GER BC 3011	<i>Introduction to German Literature and Civilization</i>
GER BC 3061	<i>Seminar</i>

Five one-term advanced literature courses chosen from GER BC 3014-3048

A third advanced language course may be substituted for one advanced literature course.

GER BC 3062x or y *Senior Essay*

A one-half hour oral exit examination is required.

The Major in German Studies:

This major combines a study of literature with other aspects of German culture and civilization by choosing courses from the social sciences such as history, political science and economics, and from other humanities dealing with the German-speaking regions of Europe.

The department will assist and advise those students who are interested in opportunities to study in Germany or Austria.

Requirements: 14 courses

Two or three of the following language courses or their equivalent:

GER BC 3005-3008

Four or five one-term Advanced Literature and Culture courses numbered:

GER BC 3011-3048

One GER BC 3062x or y *Senior Essay**

Six one-term courses in the Social Sciences and Humanities that relate to the German-speaking countries of Europe and define a special field of interest (to be chosen in consultation with the major adviser). Two courses dealing with German history are strongly recommended.

*The major adviser in the German department will work with a second reader in another field if the thesis topic should require it.

A one half-hour oral exit examination is required.

The Combined Major: German + Another Field**Requirements: 14 courses**

(Seven courses in each department, including a seminar in one of the departments and a senior essay on a topic bridging both fields.)

A student who selects a Combined Major will establish her special program in consultation with the departments concerned.

The Minor in German**Requirements: 5 courses**

Advanced language courses from GER BC 3005-8

GER BC 3011

A minimum of three additional advanced literature courses from GER BC 3011-47/48

COURSES OF INSTRUCTION**LANGUAGE COURSES****GER BC 1001x-1002y****Elementary Full-Year Course**

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.

—M. Shulman and staff

Work with video cassettes is required. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points. Sec. 1 M T W Th F 9:00

Sec. 2 M T W Th F 12:00

Sec. 3 M T W Th F 12:00

GER BC 1001y**Elementary Full-Year Course Part I**

Same as BC 1001x, but given in the Spring Term.

—A. Pontani

No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points. M Tu W Th F 10:00

GER BC 1002x**Elementary Full-Year Course Part II**

Same as BC 1002y, but given in the Autumn Term. — M. Shulman

4 points. M Tu W Th F 1:10

GER BC 1203x**Intermediate Course I**

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication. — S. Berka and staff

Prerequisite: BC 1002 or the equivalent.

4 points. Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

Sec. 3 M Tu W Th 4:10

GER BC 1203y**Intermediate Course I**

Same as BC 1203x, but given in the Spring Term. —S. Berka

Prerequisite: BC 1002 or the equivalent.

4 points. M Tu W Th 1:10

GERMAN

GER BC 1204y **Intermediate Course II**

Language study based on literary texts: several short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.

—S. Berka and staff

Prerequisite: BC 1203 or the equivalent.

3 points. Sec. 1 M W F 10:00

Sec. 2 M W F 1:10

Sec. 3 M W F 4:10

GER BC 1204x **Intermediate Course II**

Same as BC 1204y, but given in the Autumn Term.

—R. Ayre

Prerequisite: BC 1203 or the equivalent.

3 points. M W F 12:00

GER BC 3005x **Conversational German**

Intensive oral practice with emphasis on idiomatic usage and cultural allusions in speech patterns. Discussion of items in the German press and radio. Third hour for third point with special assignments. This course and BC 3006 may be taken in reverse sequence. —G. Sakrawa

2 points. Sec. 1 M W 10:00

3 points. Sec. 2 M W F 10:00

GER BC 3006y **Advanced German Composition**

Weekly writing assignments, also extended projects. Choice of topics. Designed to improve grammar, syntax, vocabulary and style. The course may be taken before BC 3005x. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 10:00

GER BC 3007x **Business-Economic German I**

Prerequisite: BC 1024 or permission of the instructor.

3 points. Not offered in 1993-94.

GER BC 3008y **Business-Economic German II**

Prerequisite: BC 3007x or permission of the instructor.

3 points. Not offered in 1993-94.

GER BC 3011x **Introduction to German** **Literature and Civilization**

German literature in a historical-cultural context from the late 18th- to the 20th-century. Selected readings from Lessing to Handke. —S. Berka

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 11:00

III H

GER BC 3014y **German Literature and Culture** **around the Turn of the 20th Century**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1993-94.

H

GER BC 3015x **Goethe**

Prerequisite: BC 1204 or the equivalent. Alternate years.

3 points. Not offered in 1993-94.

III H

GER BC 3016y **The Romantic Movement in** **Germany 1790-1820**

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time.

Movement's impact on scholarship and translation. poetic works by Tieck, Novalis, Hölderlin, Hoffmann, and Eichendorff. —G. Sakrawa

Prerequisite: BC 1204 or the equivalent.

3 points. M F 1:10-2:25

III H

GER BC 3018y **Schiller and Kleist**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1993-94.

III H

GER BC 3025y **The Age of the Bourgeoisie** **in German Literature**

Prerequisite: BC 1204 or the equivalent.

Offered every three years.

3 points. Not offered in 1993-94.

III H

GER BC 3027y **Modern German Literature** **and Culture: 1900-1945**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1993-94.

III H

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3028y**Contemporary German Literature
from End of World War II to Unification**

Critical analysis of works by writers from the two Germanies, Austria, Switzerland: Böll, Bachmann, Frisch, Grass, Wolf, Hein, Handke, Strauss, Jelinek, and others. —S. Berka

Prerequisite: BC 1204 or the equivalent.

Alternate years.

3 points. M W 2:40-3:55

III H

GER BC 3046y**German Literature in the 18th-Century**

Prerequisite: BC 1204 or the equivalent. *Alternate years. Not offered in 1993-94.*

III H

GER BC 3061x**Seminar: The German "Novelle"**

A study of the most distinctive genre of German prose fiction as it developed in the 19th century in works of such authors as Kleist, E.T.A. Hoffman, Stifter, Keller, C.F.Meyer, Storm. —G. Sakrawa
Prerequisite: Major status or permission of the instructor.

4 points. Tu 2:10-4:00

III H

GER BC 3062y**Senior Essay**

The topic must be related to one of the literature courses that the student has completed in the department. —G. Sakrawa and S. Berka
Open to senior majors. Permission of the instructor required.

3 points. Regular consultations with the instructor at hours to be arranged.

COURSES GIVEN IN ENGLISH

German majors and minors are required to read the texts in German and to attend an additional seminar hour conducted in German in those courses indicated below.

GER BC 3047y**The Golden Age of German Medieval Literature**

Corequisite: GER BC 3048y required for German majors and minors.

3 points. Not offered in 1993-94.

III

GER BC 3048y**The Golden Age of German Medieval Literature: Discussion Section**

Required for German majors and minors only: texts to be read in German. Prerequisite: GER BC 1204 or equivalent. *Corequisite:* GER BC 3047y.

1 point. Not offered in 1993-94.

Professors: Robert A. McCaughey (Dean of the Faculty), Rosalind N. Rosenberg²

Associate Professors: Mark C. Carnes (Chair), Nancy Woloch² (Adjunct)

Assistant Professors: Beth Bailey, David Farber, Joel Kaye, Richard J. Lufrano³, Herbert Sloan, Lisa Tiersten, Deborah Valenze

Other officers of the University offering courses in History:

Professors: Roger S. Bagnall, Alan Brinkley³, Richard Bulliet, Richard Bushman, Caroline Bynum, David Cannadine², Istvan Deák³, Barbara Fields³, Eric Foner³, Nina Garsoiän, Carol Gluck, Arthur Goren, Victoria de Grazia, Leopold H. Haimson², William V. Harris¹, Martha Howell, Kenneth Jackson, Herbert S. Klein², Hollis R. Lynch, Edward Malefakis, Manning Marable, Mohamed Mbodj, Robert O. Paxton, Eugene Rice, David J. Rothman, Simon Schama, James P. Shenton, J.W. Smit, Michael Stanislawski, Nancy Leys Stepan, Fritz Stern, Alden T. Vaughan³, Isser Woloch², Richard Wortman², Marcia Wright, Yosef H. Yerushalmi, Madeleine Zelin³

Associate Professors: Richard Billows, Elizabeth Blackmar, Joshua Freeman, Ayesha Jalal, Rhoads Murphy, Marc Van de Mierop³, Dwight Van Horn, Mark von Hagen

Assistant Professors: David Armitage, Olivia Constable, Atina Grossmann, Mahmud Haddad³, Deborah Levenson-Estrada, Achille Mbembe, Silvana Patriarca, James Rives², Martha Saxton (Visiting), Daryl Scott, Anders Stephanson³

¹Absent on leave Autumn term

²Absent on leave Spring term

³Absent on leave 1993-94.

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence — quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

- 1000-level introductory lecture courses
- 3000-level advanced lecture courses
- 3400-level seminars
- 3700-level senior research seminars
- 3900-level independent research seminars

Lecture courses are defined more broadly — chronologically, geographically, thematically — than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1993 seminars: April 16, 1993. Deadline for applications for Spring 1994 seminars: November 19, 1993. Deadline for applications for Autumn 1994 seminars: April 15, 1994.

Students should consult the Columbia College catalogue for full descriptions of Columbia

history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 415 Lehman. Certain Columbia graduate ("G") courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of College credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history. These credits are not counted toward the History major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The three principal areas of concentration are European, American, and Asian history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, or African history. The 11 required courses must include:

- 1. Three 1000-level courses (or their equivalent—students with AP credit may substitute a more advanced course)
- 2. Two seminars
- 3. The two-semester senior research seminar (HIS BC 3791-2 or HIS 3793-4).

Majors may, with the approval of their advisers, take two of their 11 courses outside the department, provided that such courses are closely related to their concentrations.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the autumn semester, then complete their research and writing in the spring.

REQUIREMENTS FOR THE MINOR

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES:
ANCIENT, MEDIEVAL, JEWISH, AND
MODERN EUROPEAN HISTORY
HIS BC 1004x
Introduction to Later Middle Ages: 1050-1450
Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and

modern historical writings.—J. Kaye
3 points. Tu Th 10:35-11:50 III S
HIS BC 1011x
Introduction to European History:
Renaissance to French Revolution
Political, economic, social, religious, and intellectual history of early modern Europe, including the Renaissance, Reformation and Counter-

HISTORY

Reformation, absolutism, Scientific Revolution, and Enlightenment.—D. Valenze 3 points. Tu Th 10:35-11:50	III S	
HIS BC 1012y Introduction to European History: French Revolution to the Present Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism, and imperialism; 20th-century world wars, the Great Depression, and Fascism. —L. Tiersten 3 points. M W 11:00-12:15	III S	
HIS BC 3026y Medieval Intellectual History, 1050-1400 —J. Kaye 3 points. M W 2:40-3:55	III S	
HIS BC 3038y European Women in the Age of Revolution, 1750-1890 An exploration of the origins of the “modern” European woman: changing political and legal definitions of women; new concepts of women’s work and authority during industrialization; women’s involvement in religion and reform; emergence of socialist and feminist critiques of 19th-century womanhood. —D. Valenze 3 points. M W 1:10-2:25	III S	
HIS BC 3039x The “Civilizing Process”: European Encounters with Non-Western Cultures The shaping of European cultural identity through encounters with non-European cultures from 1750 to the post-colonial era. Novels, paintings, films, comic strips, and household furnishings will be among the sources examined. —L. Tiersten 3 points. M W 1:10-2:25	III S	
HIS W 1005x Survey of Ancient Greek History, 800-146 BC —R. Billows 3 points. Tu Th 10:35-11:50	S	
HIS W 1006y The Romans and Their Empire —W. Harris 3 points. Tu Th 4:10-5:25	S	
HIS W 1145y Medieval People: Introduction to the European Middle Ages —C. Bynum 3 points. Tu Th 10:35-11:50	S	
HIS W 1150x Introduction to European History I —E. Malefakis 3 points. Tu Th 6:10-7:25	S	
HIS W 3204x The Age of Revolutions, 1789-1870 —I. Woloch 3 points. M W 11:00-12:15	S	
HIS W 3206y European Politics and Society Since 1919 —R. Paxton 3 points. Tu Th 10:35-11:50	S	
HIS W 3207y The Mediterranean World —O. Constable 3 points. M W 11:00-12:15	S	
HIS W 3227x British History 1688-1832 —D. Cannadine 3 points. Tu Th 1:10-2:25	S	
HIS W 3228y British History 1832-present —D. Cannadine 3 points. Tu Th 1:10-2:25	S	
HIS W 3361y History of the Soviet Union —M. von Hagen 3 points. Tu Th 2:40-3:55.	S	
HIS W 3513x Anti-Judaism and Anti-Semitism in Historical Perspective —Y. Yerushalmi 3 points. M W 11:00-12:15	S	
HIS W 3545x Modern Jewish History I —M. Stanislawski 3 points. Tu Th 10:35-11:50	S	
HIS W 3546y Modern Jewish History II —M. Stanislawski 3 points. Tu Th 10:35-11:50	S	
HIS W 3670x Disease in Modern History —N. Stepan 3 points. M W 2:40-3:55	S	

HIS W 4013x**The Mediterranean World After Alexander the Great**

—R. Billows

3 points. Tu Th 2:40-3:55 S

SEMINARS:**ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY**

All seminars require permission of the instructor. Enrollment limited to 15. Pre-registration required.

HIS BC 3410y**The City in Europe**

A social history of the city in Europe from early modern times; the economic, political and intellectual forces influencing the growth of Paris, London, Vienna and other urban centers. —D. Valenze

4 points. Tu 2:10-4:00 III S

HIS BC 3427x**Women, Class and Culture**

4 points. Not offered in 1993-94. III S

HIS BC 3416y**Medieval Science and Society**

The evolution of scientific thinking from the 12th-16th century considering subjects such as cosmology, natural history, quantification, experimentation, the physics of motion, astronomy, perspective. At every point, proto-scientific developments are linked to social and technological developments in the society beyond the schools. —J. Kaye

4 points. Th 2:10-4:00 S

HIS BC 3474x**History of the Holocaust**

—S. Zucotti

4 points. Tu 2:10-4:00 III S

HIS BC 3791x-3792y**Senior Research Seminar**

Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. —Staff

4 points. Tu 4:10-6:00

HIS W 3792x**Gender, Race and Science**

—N. Stepan

4 points. W 11:00-12:50 S

HIS W 3853x**Fascism**

—R. Paxton

4 points. Th 4:10-6:00 S

HIS W 3871x**Social Origins of National Socialism Politics and Everyday Life: Germany 1914-45**

—A. Grossman

4 points. Th 2:10-4:00 S

HIS W 3927y**The Golden Age of Athens**

—R. Billows

4 points. Tu 4:10-6:00 S

HIS W 3937x**Jewish Rights and Political Emancipation**

—J. Yerushalmi

4 points. M 2:10-4:00 S

HIS W 3967x**Personality and Society in 19th-Century Russian Thought**

—R. Wortman

4 points. W 4:10-6:00 S

HIS W 3983x**The Making of the Modern British Monarchy**

—D. Cannadine

4 points. W 4:10-6:00 S

HIS W 3776x**The Land of Three Religions: Spain in the Middle Ages**

—O. Constable

4 points. W 2:10-4:00 S

LECTURES: AMERICAN HISTORY**HIS BC 1051x****Survey of American Civilization to the Civil War**

The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. —H. Sloan

3 points. Tu Th 10:35-11:50 III S

HIS BC 1052y**Survey of American Civilization since the Civil War**

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments. —D. Farber

3 points. M W 2:40-3:55 S

HISTORY

HIS BC 3052y

The Constitution in Historical Perspective

The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights. —H. Sloan
3 points. Tu Th 2:40-3:55 III S

HIS BC 3056y

The American Civil Rights Movement

3 points. Not offered in 1993-94. III S

HIS BC 3067x

America since 1945

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs. —M. Carnes
3 points. M W 11:00-12:15 III S

HIS BC 3071x

American Cultural History

3 points. Not offered in 1993-94. III S

HIS BC 3074x

History of Sexuality

An introduction to sexual behavior and ideology in America from the colonial era to the present, with emphasis on the historical construction of sexuality. Topics include body culture and beauty, attempts to control sex and to define appropriate sexual behaviors, changing gender roles and sexuality, sex and rebellion, sex and utopias. —B. Bailey
3 points. M W 1:10-2:25 III S

HIS BC 3082x

American Women in the 20th Century

A consideration of women's changing place in modern America; the "family claim" women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism. —R. Rosenberg
3 points. Tu Th 2:40-3:55 III S

HIS BC 3085x

America in the 1960s

From myth and memory to history: Vietnam, riots, liberalism, backlash, street heat, TV, LSD, anomie, Black Power, feminism. Other topics will include Sex, Drugs, Rock 'n' Roll. The 60's will be re-opened for serious inspection. —D. Farber
3 points. M W 2:40-3:55 III S

HIS W 1109x

Main Currents in American History, 1492-1877

—R. Bushman
3 points. M W 1:10-2:25 plus 1 hour to be arranged. S

HIS W 1110y

Survey of US History 1877 to Present

—E. Blackmar
3 points. Tu Th 4:10-5:25 S

HIS W 3548x

American Jewish History

—A. Goren
3 points. Tu Th 4:10-5:25 S

HIS W 3651y

The United States Since 1945

—J. Freeman
3 points. Tu Th 10:35-11:50 S

HIS W 3652x

American Labor During the 20th Century

—J. Freeman
3 points. Tu Th 10:35-11:50 S

HIS W 3115x

History of Women in America, 1700-1900

—E. Blackmar
3 points. Tu Th 4:10-5:25 S

SEMINARS: AMERICAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.

HIS BC 3444x

Bourgeois America

4 points. Not offered in 1993-94. III S

HIS BC 3451x

Law and American Society

4 points. Not offered in 1993-94. III S

HIS BC 3452x**Origins of the Constitution**

An examination of the creation of the Constitution; consequences of independence; ideological foundations; the Articles of Confederation and the Critical Period; the nationalist movement and the Convention; antifederalism and ratification; the Bill of Rights. Readings from selected secondary and primary sources, including *The Federalist*. —H. Sloan
4 points. Tu 4:10-6:00 III S

HIS BC 3454y**Cultural Studies**

A theoretically and methodologically based examination of the historical production of popular culture in America. —B. Bailey
4 points. W 11:00-12:50

HIS BC 3458y**War and 20th-Century American Culture**

Examines the ways in which the cultural understandings of Americans have shaped their wars; the use of media and other cultural products in waging war or in protesting against it; and the cultural products of wartime, including music, literature, film and art. —B. Bailey
4 points. Tu 11:00-12:50

HIS W 3460y**Republicanism and Its Discontents**

—E. Blackmar
4 points. W 11:00-12:50

HIS BC 3463x**American Women in the 1920's**

—N. Woloch
4 points. M 11:00-12:50

HIS BC 3464x**Higher Learning in America**

An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders. —R. McCaughey
4 points. Tu 4:10-6:00 S

ASH BC 3401x**Approaches to American Cultural History**

Colloquium—see American Studies for description. —B. Bailey
4 points. Tu 2:10-4:00 III S

HIS BC 3477x**Gender in the Bourgeois World**

A comparative study of gender roles in 19th-century Western Europe and the United States. Focuses on relations between middle-class men and women in settings such as stores, offices, parks, churches, bedrooms, and dining rooms. Examines forces that shaped gender roles, and the ways that gender influenced industrialization and urbanization. —M. Carnes, L. Tiersten
4 points. W 6:10-8:00

HIS BC 3478y**New Deal and the Modern State**

—D. Farber
4 points. Tu 2:10-4:00

HIS W 3879y**Colloquium on American Labor History**

J. Freeman
4 points. Th 2:10-4:00

HIS BC 3480y**American Women since 1945**

—R. Rosenberg
4 points. Not offered in 1993-94. S

HIS BC 3489x**The Fourteenth Amendment and Its Uses**

4 points. Not offered in 1993-94. III S

HIS BC 3461x**Education in American History**

Seminar—see Education for description.
—N. Woloch
4 points. Tu 2:10-4:00 III S

HIS BC 3462y**Plantation Societies in 17th and 18th Century British America**

—H. Sloan
4 points. Not offered in 1993-94. III S

HIS BC 3793x-3794y**Senior Research Seminar**

Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. —Staff
Open to senior majors; others by permission of the instructor.
4 points. W 4:10-6:00

HIS W 3832x**Military History and Policy**

—K. Jackson
4 points. Tu 6:10-8:00 S

HISTORY

HIS W 3886y
The United States During the 1960s
—B. Tischler
4 points. F 2:10-4:00

HIS W 3896 x
Foundations of the American Republic
—R. Bushman
4 points. Tu 4:10-6:00

HIS W 3931x
Slavery and Race Relations in the Americas
—H. Klein
4 points. Th 2:10-4:00

HIS W 3934y
Immigrant and the City
—A. Goren
4 points. Th 11:00-12:50

HIS W 3939x
Melting Pot to New Multiculturalism
—A. Goren
4 points. Hours TBA.

HIS W 3940x
History of the City of New York
—K. Jackson
4 points. Tu 6:10-8:00

HIS W 3943x
Communism and Anti-Communism in American Life
—J. Freeman
4 points. Th 2:10-4:00

LECTURES:
ASIAN, LATIN AMERICAN, AFRICAN AND MIDDLE EASTERN HISTORY

HIS W 3005x
Main Currents in African History
—M. Mbodj
3 points. M W 11:00-12:15

HIS BC 1021x
Late Imperial China, 1550-1900
3 points. Not offered in 1993-94.

HIS BC 1022y
China in the Twentieth Century
3 points. Not offered in 1993-94.

HIS W 3722y
South Asia in the 20th Century
—A. Jalal
3 points. Tu Th 10:35-11:50

SEMINARS:
ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY

All seminars require permission of the instructor.
Enrollment limited to 15. Preregistration required.

SEE UNDER ASIAN & MIDDLE EASTERN CULTURES FOR ADDITIONAL COURSES.

HIS BC 3916x
Imperialism and Anti-Imperialism: the Case of Africa
—M. Mbodj
4 points. Tu 11:00-12:50

East Asian History-EAH V 3580x
Dominance, Resistance and Political Culture in Modern China
—M. Tsin
4 points. Hours TBA.

ASN V 3582y
Chinese Political Thought
—I. Bloom
4 points. M W 1:100-2:25

HIS BC 3430y
The Cultural Revolution in China
4 points. Not offered in 1993-94.

HIS BC 3799x, y
Independent Study
—Staff
4 points.

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 412 Lewisohn Hall.

History H 2503x, y**Introduction to****French Civilization and Culture**

Contemporary French society in historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French. —A. Chebel-d'Appollia
3 points. S

History-Political Science H 3240x, y**The State and Political Life in France from the Revolution to the Present**

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of

contemporary France are discussed. —D. Hemery
3 points. S

History-Political Science H 3260y**The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968**

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis; the Dreyfus case, the thirties, World War II, the Algerian War, etc. —C. Prochassons
3 points. S

History H 3460x**Intellectual and Social History of Paris**

A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world. —J. M. Léri
3 points. S

ITALIAN

206 Milbank Hall

854-5418, 3577

Assistant Professor: Antonella Ansani

Associate: Daniela Noè

Other officers of the University offering courses in Italian:

Professors: Teodolinda Barolini, Luciano Rebay

Associate Professor: JoAnn Cavallo

Assistant Professor: Massimo Pesaresi

Lecturers: Margherita Repetto Alaia, Mario Bellati, Giuseppe Trapanese, Maria Luisa Gozzi

For organizational purposes faculty teaching Italian language and literature courses will be included in the Department of German, Italian, and Linguistics.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of Italian, the comprehensive elementary and intermediate course is recommended. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and are open to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian office is 317 Milbank Hall, and the Columbia department is housed in 502 Hamilton.

Graduate courses are open to qualified students with permission of the instructor.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the Department Placement examination:

ITA V 1101-V 1102

Elementary Full-Year Course

ITA V 1201-V 1202

Intermediate Course

or

ITA V 1301-V 1302

Comprehensive Elementary and Intermediate Course:

10 courses are required for the major including:

ITA V 3333-V 3334

Introduction to Italian Literature

ITA V 3335-V 3336

Italian Written and Oral Style

ITA V 3993-V 3994

Seminar in Italian Literature

plus at least four more courses in Italian numbered above ITA V 1312.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor to be selected from courses including and numbered above V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with ITA V 1101-V 1102 and V 1201-V 1202 (or their equivalents), or with ITA V 1301-V 1302 (with permission of the department), followed by ITA V 3333-3334 or ITA V 3335-3336. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard or Columbia, must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 502 Hamilton.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y

Elementary Full-Year Course

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —D. Noè and associates

Students must sign up for sections of this course in 502 Hamilton during the pre-registration period.

4 points. Sec. 1, 2 M Tu W Th 9:00

Sec. 3, 4, 5, 6 M Tu W Th 12:00

ITA F 1101x-F 1102y

Elementary Full-Year Course

—Staff

4 points. Sec. 1 M W 6:10-8:00

Sec 2 Tu Th 6:10-8:00

ITA F 1102x-F 1101y

Elementary Full-Year Course

—Staff

4 points. Sec. 1 M W F 1:10-2:25

ITA W 1111x, W 1112y

Elementary Conversation

—M. Bellati

Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.

Conversation courses may not be used to satisfy the language requirement.

2 points. Tu Th 1:10-2:25

ITA V 1201x-V 1202y

Intermediate Course

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. —D. Noè, A. Ansani and associates

Prerequisite: V/F 1102 or the equivalent. Students must sign up for sections of this course in Room 502 Hamilton during the pre-registration period.

4 points. Sec. 1 M Tu W Th 11:00

Sec. 2, 3 M Tu W Th 12:00

ITA F 1201x, F 1202y

Intermediate Course

—G. Trapanese

Prerequisite: V/F 1102 or the equivalent.

4 points. M W 6:10-8:00

ITA W 1221x, W 1222y

Intermediate Conversation

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports.

—M. Bellati

Conversation courses may not be used to satisfy the language requirement. Prerequisite: ITA W 1112 or sufficient fluency to satisfy the instructor.

2 points. Tu Th 2:40-3:55

ITA V 1301x-V 1302y

Comprehensive Elementary and Intermediate Course

With permission of the department, this course may be applied toward the fulfillment of the language requirement provided it is followed by ITA V 3333-3334 or ITA V 3335-3336.

Students must sign up for sections of this course in Room 502 Hamilton during the pre-registration period. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of Italian, with stress on reading, writing, and conversing.

4 points. Sec. 1 M Tu W Th 10:00-10:50

—D. Noè

Sec. 2 Tu Th 3:10-5 —Staff

ITA W 1311x, 1312y

Advanced Conversation

Practice in the spoken language through assigned topics on contemporary Italian culture. Conversation courses may not be used to satisfy the language requirement. —M. Bellati

Prerequisite: ITA W 1222 or permission of the instructor.

2 points. Tu Th 10:35-11:50

ITALIAN

ITA V 3335x, V 3336y

Italian Written and Oral Style

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. —A. Ansani

Prerequisite: two years of college language or the equivalent.

3 points. Tu Th 2:40-3:55

LITERATURE COURSES

For non-majors, the literature courses listed below will count toward the distribution requirement.

ITA V 3225y

Italian Women Writers: the Humanist Background and the Modern Experience

Women's contribution to Italian civilization and literature from Humanism and Renaissance to the present. Writings and works by women will be studied in conjunction with readings from recent scholarship on women's history and literary criticism. —M. Alaia.

3 points. M W 1:10-2:25

plus 1 hour TBA for Italian majors. III H

ITA V 3230y

The Italian Novella in the Middle Ages and the Renaissance

3 points. Not offered in 1993-94. III H

ITA V 3333x, V 3334y

Introduction to Italian Literature

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature. —V 3333: T. Barolini; V 3334: L. Rebay

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 2:40-3:55 III H

ITA V 3641x

The Italian Theatre in the Renaissance

Prerequisite: V 120-V 1202 or the equivalent.

3 points. Not offered in 1993-94. III H

ITA V 3891x

Dante, *La Divina Commedia*

An introduction to *The Divine Comedy*, with emphasis on textual analysis and the appreciation of Dante's masterwork as a poetic text. Reading and lectures in Italian; class discussions and written assignments in either Italian or English. —L. Rebay

Prerequisite: two years of college-level Italian or the equivalent.

3 points M W 1:10-2:25 III H

ITA V 3993x-3994y

Seminar in Italian Literature

Required of students with a major or concentration in Italian. Open to other qualified students with permission of Departmental Representative.

—A. Ansani, T. Barolini, J. Cavallo, M. Pesaresi, L. Rebay

Hours TBA. H

ITA W 4091x-W4092y

Dante's *Divina Commedia*

3 points. Not offered in 1993-94. III H

ITA W 4502x

Italian Cultural Studies I: from Unification to World War I.

An interdisciplinary study of Italian culture from the years of Unification (1860) to the outbreak of World War I. —M. Alaia.

3 points. M W 11:00-12:15 III H

ITA W 4503y

Italian Cultural Studies II: from World War I to Present.

An interdisciplinary study of Italian culture from World War I to the present. —M. Alaia.

3 points. M W 11:00-12:15 III H

ITA W 4200y

Once Upon a Time, in a Far Away Land: the Italian Fairy Tale.

A study of the Italian Fairy tale from its oral folk origins to the first literary examples, viewed from a variety of critical approaches including the formalist, folkloric and psychoanalytic. —A. Ansani

Prerequisite: Permission of the instructor. [In English] optional 4th hour in Italian for majors/minors.

3 points. Tu Th 11:00-12:15 III H

ITA W 4400x

The Italian Mind: Patterns of Representation

A critical assessment of some of the main features of the "Italian character." Representations of "Italianità" (dealing with such issues as Fascism, the Mafia, and Catholicism) will be analyzed on the basis of literary and cultural readings. —M. Pesaresi

3 points. Tu Th 4:10-5:25 III H

Professor: Joseph L. Malone (Chair)

Other Barnard officers offering courses listed below:

Professor: Sue Howard Larson (Philosophy)

Associate Professor: Robert Remez (Psychology)

Assistant Professor: Dirk Obbink

Other officers of the University offering courses listed below:

Professors: Robert Austerlitz (Linguistics), Haim Gaifman (Philosophy), Robert Krauss (Psychology), Rado Lencek (Slavic), Hilary Sachs, Leonardo Tarán (Classics), David Yerkes (English)

Associate Professors: Akeel Bilgrami (Philosophy), Gail Kaiser (Computer Science), Shaughan Lavine (Philosophy), Kathleen McKeown (Computer Science)

Assistant Professors: Frank Miller (Slavic), Mark J. Petrini (Classics)

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chair or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 31).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x.

Introduction to Linguistics

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone

Enrollment limited to 100 students. Advance sign-up required.

3 points. Tu Th 9:10-10:25

S

LIN V 3410y

The Science of Linguistics and the Art of Translation

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation. —J. Malone

Prerequisite: V 1101 or permission of the instructor. Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.

3 points. Not offered in 1993-94.

S

LIN V 3412y

Linguistics and the Translation of Poetic Language

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include mono-lingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.

3 points. Not offered in 1993-94.

S

LIN V 3414y

Linguistics and the Structure of Texts

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages. —J. Malone

Prerequisite: V 1101 or permission of the instructor. Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412.

3 points. Tu Th 9:10-10:25

LIN BC 3052y **Gender Systems**

The structure and function of gender systems and similar linguistic marking networks: systems based on sex (e.g. Spanish, Arabic), animacy (e.g. Ojibwa), shape (e.g. Chinese classifiers). Natural, arbitrary, and emblematic systems. Pronouns, syntax, and semantics; social implications of sex-based marking; measures taken to combat sexist effects. —J. Malone
Enrollment limited to 25. Prerequisite: V 1101 or permission of the instructor. Advance sign-up required.
3 points. Tu Th 1:10-2:25

LIN BC 3600y **Introduction to Semitic Languages and Linguistics**

The Semitic languages: historical development and typological nature. Reconstruction of ancestral languages; dialect relations; writing systems, philology; morphosyntactic, phonological, semantic characteristics.
Enrollment limited to 25. Advance sign-up required. Prerequisite: Previous or concurrent work in some Semitic language, or permission of the instructor.
3 points. Not offered in 1993-94.

LIN W 4204x **Introduction to Phonology**

The systemic deployment of speech sounds at the service of languages' morphosyntax. Alternational phonology; rules and representation; phonological features; linear and nonlinear phonology (autosegments, tiers); metrical and grid phonology; prosodology.
Prerequisite: For undergraduates either V 1101 or permission of the instructor.
3 points. Not offered in 1993-94.

LIN W 4108y **Principles of Historical Linguistics**

Language change and linguistic reconstruction. The comparative method and internal reconstruction; patterns of linguistic change, borrowing, analogy; language change as rule change; writing systems, philology.
Prerequisite: For undergraduates either V 1101 or permission of the instructor.
3 points. Not offered in 1993-94.

LIN W 4901x **Synchronic and Diachronic Generative Phonology**

The theory and practice of phonology from N. Chomsky's and M. Halle's *The Sound Pattern of English* (1968) and R. King's *Historical Linguistics and Generative Grammar* (1969) through the present. Phonological rules and representations viewed both through time (internal reconstruc-

tion, comparative method) and ahistorically. Some consideration of autosegmental, lexical, metrical and grid phonologies.
Prerequisite: for undergraduates either V1101 or permission of the instructor.
3 points. Not offered in 1993-94.

LIN W 4903x **Semantics and Generative-transformational Syntax**

Contemporary approaches to the relation between linguistic meaning and form, with special emphasis on work within the Chomskian tradition. Transformational and phrase-structure grammar, X-bar syntax. Government and Binding, interpretive and generative semantics, lexical decomposition, Logical Form. —J. Malone
Prerequisite: for undergraduates either V 1101 or permission of the instructor.
3 points. Tu Th 10:35-11:50

CSC W 4115x **Programming Languages and Translators I** —G. Kaiser

3 points. M W 1:10-2:25

CSC W 4705y **Natural Language Processing** —K. McKeown

3 points. Hours TBA.

LAT V 3012x **Lyric Poetry** —G. Williams

3 points. M W 2:40-3:25

PHI 3411x **Symbolic Logic: Formal Introduction** —H. Gaifman

3 points. Tu Th 11:00-12:15

PHI V 3415y **Symbolic Logic: Philosophical Introduction** —H. Gaifman

3 points. Tu Th 11:00-12:15

PSY BC 2160x **Cognitive Psychology** —G. Musen

3 points. Not offered in 1993-94.

PSY BC 3164y **Perception and Language** —R. Remez

3 points. Not offered in 1993-94.

PSY W 4132y

Production and Perception of Language

—R. Remez

3 points. Not offered in 1993-94.

FRE BC 3014x

Advanced Translation

—A. Boyman

3 points. Tu Th 10:35-11:50

GRE W 4139x

Elements of Greek Prose Style

—D. Obbink

3 points. Tu Th 9:10-10:25

PSY W 2604y

Human Communication

—R. Krauss

3 points. Tu Th 10:35-11:50

FRRP W 3510y

History of Romance Language

—H. Sachs

3 points. M W 9:00-10:25

See Columbia College catalog for other courses
in Linguistics.

Professor: Joan S. Birman

Associate Professor: David A. Bayer (Chair)

Visiting Assistant Professor: David Farmer

Other officers of the University offering courses in Mathematics:

Professors: Hyman Bass, Robert Friedman, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jorgensen, Masatake Kuranishi, Boris G. Moishezon, John W. Morgan, Duong Hong Phong, Henry Pinkham.

J. F. Ritt Assistant Professors: Fred Diamond, Benji Fisher, Ming Hyong Kim, Daniel Lieman, Roberto Silvotti, Ki-Seng Tan, Jonathan Weitsman, Gretchen Wright, Siye Wu.

The Mathematics Department offers a wide range of courses, which fall into groups: service courses for students who need to learn the tools of mathematics, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Students interested in Computer Science should consult the program listing of that department, page 109.

GENERAL INFORMATION

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must pass Quantitative Reasoning BC 1001 *Basic Mathematics Skills* before they can be admitted to any mathematics courses.

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

Mathematics V 1007 *Applied Linear Algebra*, V 1010 *Groups and Symmetries*, and V 1011 *Surfaces and Knots* are appropriate choices for students who are seeking a course which is not too difficult and which is distinctly different from high school mathematics. These courses are designed for students who do not intend to continue with any of the Calculus offerings.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: *Calculus IA, IIA, IIIA, IIIS/IVA* (MAT V 1101, V 1102, V 1205/V 1202); *Calculus IS, IIS, IIIS/IVA* (MAT V 1105, V 1106, V 1205/V 1202); *Honors Mathematics I, II, III, IV* (MAT V 1107, V 1108, V 1207, V 1208).

The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace, so as to allow well-prepared students to cover more rapidly the calculus needed for their studies.

The S-Sequence covers in two semesters the same material as is covered in the A-sequence in three semesters.

CAUTION: Students who take IIA after completing IS are repeating one point of material, and therefore will only receive 2 points of credit for IIA.

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged during the term.

A fourth sequence on the first year level, *Calculus for Social Sciences I, II*, is designed for

prospective Social Sciences and humanities majors.

Students who have passed the advanced placement test for *Calculus AB* with a grade of 5 or BC calculus with a grade of 4 or 5 will be allowed to start with *Calculus IIS* and receive 4 points of credit. Students with 3 or less on advanced placement will receive no credit. Those who passed *Calculus AB* with a grade of 4 will have to take a placement test with the Mathematics Department before being allowed to start with *Calculus IIS*. They will receive 4 points of credit only after passing *Calculus IIS*.

Students who have special placement problems should go to Room 404 Mathematics (or 404 Altschul) to arrange an appointment with a faculty member or the chair during Orientation Week.

Two help rooms, one in 404 Mathematics and one in 404 Altschul, will be open all term (hours will be posted on the door), for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the chairman or with the administrative assistant (404 Altschul) to choose a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Students who are interested in an applied mathematics major with an emphasis on applications to economics should consult with a faculty member to plan an individual program.

Courses for a major in mathematics. 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors MAT, I-IV*; 18 points in mathematics courses numbered above 2000; and 12 points in any combination of mathematics and cognate courses. The courses in mathematics must include MAT V 2010, W 4041-W 4042, W 4061- W 4062, and at least one term of MAT V 3951- V 3952. In exceptional cases, the Chair will approve the substitution of certain more advanced courses for those mentioned above.

Courses for a major in applied mathematics: 44 points (or 43 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors Mathematics, I-IV*; 3 points in MAT V 2010; 3 points in MAT W 4061; 8 points in APM E 4901-4902 (2 points in the junior year), APM 4903-4904 (6 points in the senior year); 18 points in electives from the following courses: MAT V 2500; MAT V 3030; MAT V 3027; MAT V 3028; MAT V 3007; MAT W 4032; MAT W 4033; *Statistics IEOR W 3658*; APM E 4300; and others (with the approval of the Applied Mathematics Committee). The electives should include MAT V 3030 or MAT V 3027, MAT V 3028 or *Statistics—IEOR W 3658*. Mat W 4061 can be replaced by MAT V 2500 or MAT W 4032.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chair.

MAT W 1003x
College Algebra and Analytic Geometry
For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. —Staff
3 points.

- x: Sec. 1 M W F 1:10-2:25
- Sec. 2 Tu Th 7:10-9:05
- Sec. 3 M W 9:00-10:55
- Sec. 4 Tu Th 4:10-6:05
- Sec. 5 M W 6:10-8:05
- y: Sec. 1 M W F 1:10-2:25
- Sec. 2 Tu Th 7:10-9:05
- Sec. 3 M W 9:00-10:55
- Sec. 4 Tu Th 4:10-6:05
- Sec. 5 M W 6:10-8:05

COURSES OF INSTRUCTION

MAT V 1007x

Applied Linear Algebra

Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming the simplex method, difference equations, applications to economics and finance. —B. Moishezon

Prerequisite: High school algebra.

3 points. Tu Th 4:10-5:25

MAT V 1010x

Groups and Symmetry

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. —TBA

Prerequisite: Intermediate algebra and trigonometry.

3 points. M W F 9:00-9:50

MAT V 1011y

Surfaces and Knots

An elementary introduction to contemporary topology. Topological graph theory. Surfaces, knots, links and braids. —TBA

Prerequisite: Intermediate algebra, geometry, and trigonometry.

3 points. M W F 9:00-9:50

MAT V 1101x, y

Calculus IA

Functions, limits, derivatives; introduction to integrals. —Staff

Prerequisite: a firm grasp of high school mathematics through trigonometry, or MAT W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on door), is open to students seeking individual help from the instructors and teaching assistants.

3 points.

x: Sec. 1 M W F 9:00-9:50 —TBA

Sec. 2 M W F 10:00-10:50 —TBA

Sec. 3 M W F 11:00-11:50 —D. Farmer

Sec. 4 M W F 11:00-11:50 —J. Weitsman

Sec. 5 M W 1:10-2:25 —J. Birman

Sec. 6 Tu Th 9:10-10:25 —TBA

Sec. 7 Tu Th 6:10-7:25 —P. Gallagher

y: Sec. 1 M W F 11:00-11:50 —S. Rips

Sec. 2 M W F 4:10-5:25 —K. Tan

Sec. 3 Tu Th 6:10-7:25 —T. Jorgensen

MAT V 1102x, y

Calculus IIA

Methods of integration; applications of the integral: Taylor's Theorem; infinite series. —Staff

Prerequisite: Course V 1101 or the equivalent.

3 points.

x: Sec. 1 M W F 10:00-10:50 —M. Kim

Sec. 2 M W F 4:10-5:25 —K. Tan

Sec. 3 Tu Th 6:10-7:25 —T. Jorgensen

y: Sec. 1 M W F 10:00-10:50 —TBA

Sec. 2 M W F 10:00-10:50 —TBA

Sec. 3 M W F 11:00-11:50 —J. Weitsman

Sec. 4 M W 1:10-2:25 —J. Birman

Sec. 5 Tu Th 9:10-10:25 —TBA

Sec. 6 Tu Th 6:10-7:25 —P. Gallagher

MAT V 1105x

Calculus IS

Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.

4 points.

Sec. 1 M W F 10:00-10:50 —J. Weitsman

Sec. 2 M W F 11:00-11:50 —D. Goldfeld

Sec. 3 M W 1:10-2:25 —K. Tan

MAT V 1106x, y

Calculus IIS

Improper integrals, Taylor's formula, infinite series, complex exponential vectors in R^{22} and R^{33} , vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient, surfaces, optimization and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session. Some calculus background assumed.

Prerequisite: Course V 1105 or the equivalent.

4 points.

x: Sec. 1 M W F 9:00-9:50 —D. Lieman

Sec. 2 M W F 10:00-10:50 —D. Lieman

y: Sec. 1 M W F 10:00-10:50 —J. Weitsman

Sec. 2 M W F 10:00-10:50 —D. Goldfeld

Sec. 3 M W 11:00-11:50 —K. Tan

MAT V 1107x, 1108y

Honors Mathematics I-II

For further information see the discussion under "General Information," page 180 —R. Friedman

3 points. M W F 11:00-11:50

MAT V 1111x, 1112y

Calculus for Social Sciences I & II

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, partial derivatives, optimization, y: integrals, differential equations, infinite series, Taylor's

formula. V 1111: derivatives, transcendental functions, partial derivatives, optimization. V 1112: integrals, differential equations, infinite series, Taylor formula, applications of the calculus to probability. —F. Diamond

Prerequisite: Same as for V 1101, V 1102.

3 points.

x: Sec. 1 M W F 10:00-10:50

Sec. 2 M W F 11:00-11:50

y: Sec. 1 M W F 10:00-10:50

Sec. 2 M W F 11:00-11:50

MAT V 1201x, y **Calculus IIIA**

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extreme; double and triple integrals.

Prerequisite: Course V 1102 or the equivalent.

3 points.

x: Sec. 1 Tu Th 10:35-11:50 —TBA

Sec. 2 Tu Th 1:10-2:25 —M. Kuranishi

y: Sec. 1 M W F 10:00-10:50 —M. Kim

Sec. 2 Tu Th 6:10-7:25 —S. Wu

MAT V 1202y Calculus IVA

MAT V 1205x, y Calculus IIIS

Multiple integrals, Taylor's formula in several variables, line and surface integrals, calculus of vector fields.

Prerequisite: Course V 1106 or V 1201 or the equivalent.

3 points.

1202y: Tu Th 1:10-2:25 —M. Kuranishi

1205x: Sec. 1 Tu Th 10:35-11:50 —D. Bayer

Sec. 2 Tu Th 1:10-2:25 —D. Phong

Sec. 3 Tu Th 6:10-7:05 —S. Wu

1205y: Sec. 1 M W F 10:00-10:50 —D. Lieman

Sec. 2 M W F 11:00-11:50 —D. Lieman

MAT V 1207x, 1208y

Honors Mathematics III, IV

—J. Morgan

Prerequisite: Course V 1107- V 1108. Course V 1207 is the prerequisite for V 1208.

3 points. Tu Th 10:35-11:50

MAT V 2010x or y **Linear Algebra**

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, canonical forms, applications. —x: D. Bayer, y: P. Woit

Prerequisite: Calculus II S or III A or the equivalent.

3 points. x: Tu Th 9:10-10:25

y: Tu Th 2:40-3:55

MAT V 2500y

Analysis and Optimization

Topics in analysis used in optimization theory.

Least upper bound, topology of \mathbb{R}^n , continuous functions, differential functions. Quadratic forms, Hessian, implicit functions. Convex sets, convex functions. Survey of linear, quadratic, geometric programming. Optimization under constraints equalities and inequalities. Algorithms. Elements of the calculus variations and optimal control. —H. Jacquet

Prerequisite: Calculus IS, IIS or the equivalent. *Corequisite:* Linear Algebra.

3 points. Tu Th 2:40-3:55

MAT V 3007y **Complex Variables**

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem, Taylor and Laurent series poles and essential singularities; residue theorem and conformal mapping. —B. Moishezon

Prerequisite: V 1205.

3 points. Tu Th 2:40-3:55

MAT V 3020x **Elementary Number Theory**

Congruences. Primitive roots. Quadratic residues. Contemporary applications. —D. Farmer

Prerequisite: one year of calculus.

3 points. M W 1:10-2:25

MAT V 3021y **Combinatorial Number Theory**

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating functions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications. —D. Farmer

Prerequisite: MAT V 3020 or MAT V 3040.

3 points. M W 1:10-2:25

MAT V 3027x **Ordinary Differential Equations**

Equations of order one: linear equations series solutions at regular and singular points, boundary value problems; selected applications. —R. Silvotti

Prerequisite: MAT 1201 or the equivalent.

3 points. Tu Th 6:10-7:25

MAT V 3028y **Partial Differential Equations**

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems. —R. Silvotti

Prerequisite: Course V 3027 or the equivalent.

3 points. Tu Th 6:10-7:25

MATHEMATICS

MAT V 3030y

Dynamical Systems

Systems, in particular, linear systems of differential equations; qualitative study of the solutions. Applications to population biology, economics, physics, and chemistry, as selected by the instructor. —TBA

Prerequisite: MAT V 3202 and MAT W 4061.

3 points. Tu Th 9:10-10:25

MAT W 4041x, W 4042y

Introduction to Modern Algebra

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. —TBA

Prerequisite: MAT V 1205, V 2010.

3 points. M W 2:40-3:55

MAT V 3901 x, 3902y

Supervised Readings in Mathematics

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. —Staff
Permission of the chairman and of the staff member who agrees to act as sponsor are required.

2 or 3 points. Hours TBA.

MAT V 3951 x, 3952y

Undergraduate Seminars in Mathematics

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. —x: H. Bass. y: B. Fisher
Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.

3 points. Hours TBA.

Consult 4th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4032x

Fourier Analysis

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines. —P. Gallagher

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55

MAT W 4061x, 4062y

Introduction to Modern Analysis

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. —B. Fisher

Prerequisite: MAT V 1205 or the equivalent, and MAT V 2010.

3 points. Tu Th 4:10-5:25

APM E 4901x-4902y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics.

Typical topics of nonlinear dynamics, scientific computation, economics, and operations research. —C. Chu

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

1 point. Tu 12:00-1:00

APM E 4093x-y

Seminar: Problems in Applied Mathematics

Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Engineering Mathematics E 4901-4902 plus two hours of tutorials a week. Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods. —C. Chu

Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.

3 points. Tu 12:00-2:00, Th 1:00-2:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MEDIEVAL AND RENAISSANCE STUDIES

215 Milbank

854-4389

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professors of Art History: Keith Moxey, Jane Rosenthal

Professor of Classics: Carmela Franklin (CU), Lydia Lenaghan (Chair)

Assistant Professors of English: Paula Loscocco, Timea Szell

Professors of English: Anne Prescott¹, Remington Patterson

Associate Professor of English: Christopher Baswell

Assistant Professor of French: Catharine R. Coats

Lecturer in German: Regina Ayre

Professor of History: Caroline Bynum (CU)

Assistant Professor of History: Joel Kaye, Olivia R. Constable (CU)

Assistant Professor of Italian: Antonella Ansani

Professor of Music: Hubert Doris

Professor of Religion: Kate Cooper, Robert Somerville (CU)

Professor of Spanish: Marcia Welles

¹Absent on leave Spring term

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of Medieval or Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, literature, philosophy, romance philology, music, or religion. Each student, after consultation with the chair, chooses an adviser in her area of concentration who guides her in developing a sequence of courses to be taken in the field.

A minimum of 11 courses is required for the major in Medieval and Renaissance Studies:

Five courses in the area of concentration;

Two history courses for students not concentrating in history;

Two courses in the other disciplines mentioned above for those who are;

Two electives in areas outside the concentration, to be chosen in consultation with the adviser;

MRS BC 3998x and MRS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for MRS BC 3998x or 3999y.

Students are required to write an interdisciplinary senior essay based on two semesters of research in their field of concentration and in another discipline, carried out under the supervision of their area adviser and another from the second discipline. The choice of topic for this senior project and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

In addition to the language used to fulfill the general four-semester requirement for graduation, the student must have completed two semesters of a second language (or the equivalent) relevant to her area of concentration.

No minor is offered in Medieval and Renaissance Studies.

MEDIEVAL AND RENAISSANCE STUDIES

COURSES OF INSTRUCTION

MRS BC 3998x, 3999y

Directed Research for the Senior Project

Two semesters of supervised interdisciplinary research in Medieval or Renaissance Studies terminating in the writing of a senior essay. The program of research is determined in consultation with the chair and under the guidance of the area adviser. It is supervised by the latter and an adviser from the second discipline involved in the project.

—Staff

4 points. Hours TBA.

OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

Art History ARH BC 3351x

Early Christian and Early Medieval Art

—J. Rosenthal

3 points. M W 2:40-3:55

III H

Art History ARH BC 3352y

Art of the Later Middle Ages

—S. Murray

3 points. M W 2:40-3:55

H

Art History ARH V 3400x

Italian Renaissance Painting I

—J. Beck

3 points. Hours TBA.

Classical Civilization CLC W 4100y

The Handwritten Book

—C. Franklin

3 points. M W 4:10-5:25

Latin LAT V 3033y

Medieval Literature

—C. Franklin

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 1:10-2:25

Latin LAT W 4152x

Medieval Latin Literature: Prose

—M. Lafferty

3 points. M W 4:10-5:25

English ENG BC 3155y

Chaucer

The Canterbury Tales. —T. Szell

3 points. Tu Th 4:10-5:25

English ENG BC 3163x, 3164y

Shakespeare

—R. Patterson

3 points. M W 11:00-12:15

English ENG BC 3165x

The Elizabethan Renaissance

—A. Prescott

3 points. Tu Th 1:10-2:25

English ENG BC 3166x

Seventeenth Century Prose and Poetry

—P. Loscocco

3 points. Tu Th 10:35-11:50

English ENG BC 3167y

Milton

—P. Loscocco

3 points. Tu Th 10:35-11:50

English ENG BC 3169y

Renaissance Drama: 1580-1642

—R. Patterson

3 points. M W 2:40-3:55

English ENG BC 3997x

1. Wit and Humor in the Renaissance

—A. Prescott

4 points. Tu 4:10-6:00

English ENG BC 3998y

2. Women in the English Renaissance

—P. Loscocco

4 points. Th 2:10-4:00

FRE BC 3031x

The Middle Ages

—C. Coats

3 points. M W F 11:00-11:50

FRE BC 3033y

Renaissance, Baroque and Classical Poetry

—C. Coats

Permission of the instructor.

3 points. M W F 10:00-11:15

History HIS BC 1004x

Introduction to Later Middle Ages: 1050-1450

—J. Kaye

3 points. Tu Th 10:35-11:50

S

History HIS BC 3026y

Medieval Intellectual History: 1050-1400

—J. Kaye

3 points. M W 2:40-3:55

S

History HIS BC 3416y

Medieval Science and Society

—J. Kaye

Enrollment limited. Preregistration required.

4 points. Th 2:10-4:00

S

MEDIEVAL AND RENAISSANCE STUDIES

History HIS W 1145y
Medieval People: An Introduction to the European Middle Ages

—C. Bynum

3 points. Tu Th 10:35-11:50

Discussion hour TBA.

S

History HIS BC 1011x
Introduction to European History: Renaissance to French Revolution

—D. Valenze

3 points. Tu Th 10:35-11:50

S

History HIS W 3207x
The Mediterranean World, 400-1400

—O. Constable

3 points. M W 11:00-12:15.

S

History HIS W 3776x
The Land of Three Religions: Spain in the Middle Ages

—O. Constable

4 points. W 2:10-4:00

S

Italian ITA V 3891x
Dante's *La Divina Comedia*

—L. Rebay

Prerequisite: 2 years of college level Italian.

3 points. M W 1:10-2:25

H

Philosophy PHI V 3230x
Seventeenth-Century Philosophy

—A. Gabbey

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 1:10-2:25

Philosophy PHI V 3232y
Renaissance Philosophy

—A. Gabbey

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 1:10-2:25

III H

Religion REL V 2610x
Christianity

Survey of Christianity from its beginnings through the Reformation. —K. Cooper

3 points. M W 1:10-2:25

H

Religion REL V 3450
The Reformation

—C. Coats

3 points. M W 2:40-3:55

H

Religion REL V 3830x
Issues of Gender in Ancient and Medieval Christianity

—K. Cooper

4 points. Tu 4:10-6:00

H

Religion REL V 3804y
Religion and Magic in Late Antiquity

—K. Cooper

4 points. Tu 4:10-6:00

H

Spanish BC 3127y
Don Quijote

—J. Crapotta

3 points. Tu Th 1:10-2:25

H

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Lenaghan.

MUSIC

Office: 328c Milbank Hall

Telephone: 854-5096, 3825

Professor: Hubert Doris (Chair)

Lecturer: Janna Saslow

Associates: Gail Archer, Deborah Birnbaum, Jane McMahan, Lynn Owen, Neil Semer

Other officers of the University offering courses listed below:

Professors: Ian Bent, Dieter Christensen, George Edwards, Jonathan Kramer, Fred Lerdahl, Leeman L. Perkins

Associate Professors: Joseph Dubiel, Walter Frisch, Brad Garton, David Rakowski, Elaine Sisman, Mark Tucker

Assistant Professors: Mark De Bellis, Peniel Ferguson, Cynthia Gessele¹, Jeff Nichols, Thomas Payne

Instructor: Luann Dragone

Director of Music Performance: George Rothman

Associates: Anahid Ajemian, Eric Bartlett, Allen Blustine, Ronald Borrer, David Braynard, Marshall Coid, Kenneth Cooper, Maureen Gallagher, Christopher Gekker, Christine Gummere, Claire Heldrich, Mark Hill, Benjamin Hudson, Mindy Kaufman, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Donald Palma, Susan Palma, William Purvis, Matthew Raimondi, Ronald Roseman, George Rothman, Mark Shuman, Michael Skelly, George Stauffer, Lisa Terry

¹Absent on leave 1993-94

REQUIREMENTS FOR THE MAJOR

Program of Study: to be planned with the department consultant, preferably before the end of the sophomore year, and no later than the beginning of the junior year. Prospective music majors should complete the prerequisites by the end of their sophomore year. By the end of her first year as a music major she should select a faculty adviser. (Students who have already entered the major will complete the program in accord with the requirements as listed in the 1988-89 catalogue. Any questions about the changes in required courses should be addressed to departmental chair.)

Prerequisite: *Fundamentals of Western Music V 1001*. Prospective music majors are advised to satisfy this prerequisite prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the Department.

Courses: at least 38 points, including Music V 2318-V 2319 *Diatonic Harmony and Counterpoint*; V 3321-V 3322 *Chromatic Harmony and Counterpoint*; four semesters of ear training unless exempt by exam, and any one of the 3000-level Advanced Theory electives; and any **two** of the following four history courses: V 3123 *Music of the Middle Ages and Renaissance*, V 3124 *Music of the Baroque*; V 3125 *Music of the Classical and Romantic Periods*; and V 3126 *Music of the Modern Period*. The remaining 13 points are chosen from 2000- or 4000-levels. At least one 3000- or 4000-level course must deal with non-tonal music. No more than 6 points of 2000-level courses. No more than 4 points of instrumental or vocal lessons will count toward the major.

Senior Exercise: Working with her adviser, a major must complete an original project in her senior year. Normally, it may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: the music major will be required to take a keyboard proficiency exam upon entrance into the first term of theory. If she does not pass the exam, she will be required to take up to two semesters of piano that do not count toward the completion of the major.

Languages: for students who plan to do graduate work in music, the study of German, French, Italian and/or Latin is recommended.

Note: With the permission of the Department Chair, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a six-semester limit, but majors may continue, for the remainder of their program.

Practice rooms: piano practice rooms are available, at a nominal fee, upon application to the Music Department in 703 Dodge. Application should be made during registration week and the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the Chapel organist during the first week of classes.

REQUIREMENTS FOR THE MINOR

Courses for the minor: four terms of Theory, four terms of ear-training, and two terms of History.

PERFORMANCE ACTIVITIES

Columbia University Orchestra, George Rothman, conductor. Membership is open to all members of the University community. See Music V 1591-V 1592 for the audition schedule and description of activities. Students who wish to receive course credit may register for the course as listed.

Barnard-Columbia Chorus, Ms. Gail Archer, director. Membership is open to all members of the University community.

Music for an Hour. This series of informal chamber concerts, held in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Instrumental and Vocal Instruction. With appropriate prior approval, qualified students may take music lessons, one course per term for a maximum of six terms. The first two terms are unrestricted; during the **third and fourth** terms a student must take two courses in the history, literature, or theory of music concurrently with the music lessons. Only the Music major may take lessons every term. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chair is required.

Collegium Musicum. This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y
An Introduction to Music
Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. —Staff
No previous knowledge of music is required.
3 points.
Sec. 1 M W 2:40-3:55 —H. Doris
Sec. 2 Tu Th 4:10-5:25 —J. Saslow

MUS V 1002x, y
Fundamentals of Western Music
A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include: notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, voice-leading in two parts. Lab includes sight-singing and ear-training. — Instructor TBA.
4 points. x: M W 9:10-10:25
x,y Lab: Sec. 1 M W 3:00-4:00

MUSIC

Sec. 2 Tu Th 3:00-4:00
y: Sec. 1 M W 9:10-10:25
Sec. 2 M W 5:10-6:25
Lab: Sec. 3 M W 3:00-4:00
Sec. 4 Tu Th 3:00-4:00

MUS BC 1501x, BC 1502y
Voice Instruction

Entrance by audition only (call Department during registration for time and place of audition). One hour private lesson weekly. — Staff
1 point. Hours TBA.

MUS V 2008x
Score Preparation Technique

A study of the conventions of musical notation and the production of musical scores and parts, aimed at enabling composers to communicate their musical thoughts to performers and analysts. —D. Rakowski
1 point. (Lab) Tu 11:00-12:15

MUS V 2010y
Race, Gender and the Politics of Rock'n'Roll

A study of rock music from the perspective of issues in contemporary cultural theory, with special emphasis on political significance and diverse representations of race and gender. —Instructor TBA.
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Tu Th 1:10-2:25

MUS V 2020x
Salsa, Soca, and Reggae

A survey of the major syncretic urban popular music styles of the Caribbean, exploring their origins, development, and socio-cultural context. —Instructor TBA.
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Tu Th 1:10-2:25

MUS V 2015y
Music in the United States

Main currents in American musical life, with emphasis on ragtime, jazz, hymnody, spirituals, blues, popular song, and major works of Copland, Ives, Ellington, Gershwin, Billings, Foster, and Reich. —M. Tucker
Prerequisite: HUM C 1123 or MUS F 1001 or the equivalent.
3 points. Tu Th 4:10-5:25

H

III

III H

MUS V 2016x
Jazz

The musical and cultural features of jazz, beginning in 1900. —M. Tucker
Prerequisite: HUM C 1123 or MUS F 1001 or the equivalent.
3 points. M W 1:10-2:25

III H

MUS V 2023y
Beethoven

A study of the life and works of Ludwig van Beethoven, with emphasis on selected symphonies, string quartets, and piano sonatas. The course also considers the changing nature of Beethoven reception and issues of Classicism and Romanticism in music. —Instructor TBA.
Prerequisite: MUS F 1001 or HUM C 1123 or the equivalent.
3 points. M W 1:10-2:25

H

MUS V 2025x
The Opera

The development of opera from Monteverdi to the present. —C. Gessele
Prerequisite: MUS F 1001 or HUM C 1123 or the equivalent.
3 points. Tu Th 6:10-7:25

H

MUS V 2205x, y
MIDI Music Production Techniques

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals of the course, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. — B. Garton
Prerequisite: Humanities C1123 or MUS F 1001 or the equivalent
3 points. Tu Th 1:10-2:25

MUS V 2310x, y**Diatonic Harmony**

A study of the structures and principles of diatonic harmony: scales, key signatures; intervals; tonal functions; triads and sevenths; chord inversions; non-harmonic tones; pivot chords; secondary dominants; modulation. A two-hour lab will include parallel work in keyboard harmony, sight-singing, ear-training, and analysis.

Prerequisite: MUS V 1002 or the equivalent.

3 points.

x: Sec. 1 M W 11:00-12:15 —J. Nichols

Sec. 2 M W 5:10-6:25—Instructor TBA.

y: Tu Th 9:10-10:25 —G. Edwards

Lab: Sec. 1 M W 3:00-4:00

Sec. 2 Tu Th 3:00-4:00

Sec. 3 M W 3:00-4:00

Sec. 4 Tu Th 3:00-4:00

MUS V 2311x, y**Chromatic Harmony**

The structures and principles of chromatic harmony: secondary dominants, neapolitan sixths, diminished sevenths; augmented sixth chords; ninth chords; chromatic sevenths. Each harmony is illustrated in analyses of the tonal repertory.

Lab includes sight-singing and ear-training.

—x: Instructor TBA; y: F. Leydahl

Prerequisite: MUS V 2310 or the equivalent.

4 points. x: Tu Th 9:10-10:25

y: Tu Th 1:10-2:25

Lab: Sec. 1 M W 3:00-4:00

Sec. 2 Tu Th 3:00-4:00.

MUS V2312x, y**Counterpoint**

A “generative” approach to the study of basic species counterpoint. Lab includes sight-singing and ear-training. —x: D. Rakowski; y: H. Doris

Prerequisite: MUS V 2310 and 2311.

4 points. x: Tu Th 1:10-2:25

y: M W 11:00-12:15

Lab: Sec. 1 M W 3:00-4:00

Sec. 2 Tu Th 3:00-4:00

MUS V 2115y*Instrumental Chamber Music from Haydn to Carter**

A survey of instrumental chamber music from mid-18th century to the present, considered both as a social activity and as a means of artistic expression with well-defined genres, forms, and aesthetic expectations. —L. Perkins.

Prerequisite: MUS HUM or the equivalent and permission of the instructor.

3 points. Tu Th 1:10-2:25

H

MUS V 3123x**Music of the Middle Ages and Renaissance**

Western music from plainchant to Monteverdi.

—L. Perkins

Prerequisite: HUM C 1123 or MUS F 1001 or the equivalent.

3 points. Tu Th 4:10-5:25

H

MUS V 3124y**Music and the Baroque**

Western music from Monteverdi to Bach and Handel. —C. Gessele

Prerequisite: HUM C 1123 or MUS F 1001 or the equivalent.

3 points. Tu Th 4:10-5:25

H

MUS V 3130x**Music and the Enlightenment**

A study of issues in Enlightenment philosophy and aesthetics as they pertain to 18th century musical controversies and repertories. Topics will include imitation and expression, moral characters, intelligibility, sensibility and *Strum und Drang*, opera (Rousseau, Gluck, Mozart), symphony, and Haydn's *Creation*. —E. Sisman

Prerequisite: HUM C 1123 or MUS F 1001 or the equivalent.

3 points. M W 1:10-2:00; W 1:10-3:00

H

MUS V 3305x**Theories of Heinrich Schenker**

An examination of Schenker's concepts of the relation between strict counterpoint and free writing; “prolongation”; the “composing-out of harmonies; the parallels and distinctions between “foreground,” middleground, and “background,” and the interaction between composing-out and thematic processes to create “form.” —J. Nichols

Fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 2311.

3 points. Tu 1:10-2:00 and Th 1:10-3:00

H

MUS V 3239x-V 3240y**Introduction to Composition**

Composition in the shorter forms. Basic issues of musical structure and expression are explored in traditional and contemporary repertory.

—Instructor TBA.

Prerequisite: MUS V 1002 or the equivalent.

Corequisite: MUS V 2008.

3 points. F 10:00-11:50 Additional hour TBA.

MUSIC

MUS V 3241x-V 3242y **Advanced Composition**

Composition in more extended forms. Survey of advanced techniques of contemporary composition. —Instructor TBA.

Prerequisite: MUS V 3240y and permission of the instructor. *Corequisite:* MUS V 2008.

3 points. F 10:00-11:50 Additional hour TBA.

MUS V 3374y **Orchestration and Score Reading**

Prerequisite: Course V 2101 or the equivalent.

3 points. Not offered in 1993-94.

MUS V 3379x **Twentieth-Century Music**

—G. Edwards

3 points. Tu 9:00-9:50 and Th 9:00-10:50

MUS V 3380y **Music Since 1945**

Detailed analysis of selected compositions and discussions of various technical and aesthetic issues.

Composers include Messiaen, Stravinsky, Boulez, Stockhausen, Babbitt, Carter, Penderecki, Cage, Reich, Glass, Pzewski Rochberg, and others.

—D. Rakowski

3 points. Tu 9:00-9:50, Th 9:00-10:50

MUS V 3350x, 3351y **Advanced Ear Training**

Dictation, sight singing, and musicianship, with emphasis on 20th-century music. —Instructor TBA.

Prerequisite: Permission of the instructor. Priority will be given to qualified students concurrently enrolled in MUS V 2310, 2311, or 2312, and thereafter to music majors. Limited to 15 students.

1 point. W F 9:00-9:50

MUS V 3345y **Romantic Music through Romantic Eyes**

Music of 1830-1848 seen through the eyes of Romantic critics Berlioz, Schumann, Wagner, and others: opera, symphonic music, genre pieces, and song. —I. Bent

Prerequisite: HUM C 1123 or MUS F 1001, and MUS V 1002, or the equivalent.

3 points. Tu 3:10-4:00 and Th 3:10-5:00

Asian Humanities-Music AHM V 3320y **Introduction to the Musics of East Asia and Southeast Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —Instructor TBA..

3 points. M W 6:10-8:00. One hour is a listening hour.

Asian Humanities-Music AHM V 3321x **Introduction to the Musics of India and West Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —Instructor TBA.

3 points. Tu Th 4:10-6:00. One hour is a listening hour.

MUS V 3330y **Advanced Counterpoint**

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions, canons; expositions of fugues.

—J. Kramer

Prerequisite: MUS V 2310, 2311 and 2312.

3 points. Tu Th 1:10-2:25

MUS W 4000x **Writing About Music**

—M. Tucker

Prerequisite: permission of the instructor.

3 points. Tu th 1:10-2:25

MUS W 4100y **Music and Society in 15th-Century Europe: from Dufay to Josquin**

—L. Perkins

Prerequisite: HUM C 1123 or MUS F 1001 and permission of the instructor.

3 points. Hours TBA.

MUS W 4101y **Parisian Music and Musical Cultures: 12th to 13th Centuries**

—T. Payne

Prerequisites: for undergraduates, MUS F 1001 or HUM C 1123 or the equivalent; permission of the instructor required.

3 points. Tu Th 10:10-11:25

MUS W 4102y **The Music and Writings of Wagner**

—W. Frisch

Prerequisites: for undergraduates, MUS F 1001 or HUM C 1123 and MUS V 1002 or the equivalent.

3 points. M W 10:10-11:25

MUS W 4170y **Duke Ellington**

—M. Tucker

Permission of the instructor required.

3 points. Tu Th 6:10-7:25

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION

MUS V 1585x, V 1586y **University Jazz Orchestra**

1 point. P/F only.

MUS V 1591x-V 1592y **University Orchestra and Chamber Music**

An audition to be held during registration period, by appointment at 703 Dodge Hall (x43825). Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity to either perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager.

Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester.

Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester. —G. Rothman and staff

1 point. May be taken for Pass credit only.

M 5:30-8:00 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y **Barnard-Columbia Chorus**

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to all men and women in the University community. Several public concerts are given each season both on and off campus, often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature. —G. Archer
Audition required. Pass/fail credit only.

1 point. Tu Th 6:00-8:00

MUS V 1595x-V 1596y **Barnard-Columbia Chamber Singers**

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages. —G. Archer

Audition required.

1 point. Tu Th 8:00-9:30

MUS V 1598x-1599y

Chamber Ensemble and Chamber Orchestra

Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student chamber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year.

—George Rothman and staff

1 point. Hours TBA.

MUS W 1509x-W 1510y

Organ Instruction

One one-hour lesson weekly. (3 points tuition).

—G. Stauffer

Permission of the instructor required.

1 point. Hours TBA.

MUS W 1511x-W 1512y

Organ Instruction

One half-hour private lesson weekly. (3 points tuition).

Permission of the instructor required.

1 point. Hours TBA.

MUS W 1513x-W 1514y

Introduction to Piano

One half-hour private lesson weekly. (3 points tuition).

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUS W 1515x-W 1516y

Elementary Piano Instruction

One one-hour private lesson weekly. (3 points tuition).

Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUS W 1517x-W 1518y

Keyboard Harmony and Musicianship

One one-hour private lesson weekly. (3 points tuition).

Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUS W 2515x-W 2516y

Intermediate Piano Instruction

One one-hour private lesson weekly. (3 points tuition).

Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUSIC

MUS W 2517x-W 2518y

Intermediate Piano Instruction

One half-hour private lesson weekly.
(3 points tuition).

Permission of the instructor required.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours TBA with instructor.

MUS W 3515x-W 3516y

Advanced Piano Instruction

One one-hour private lesson weekly.
(3 points tuition).

Prerequisite: W 2515-2516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly
1 point. Hours TBA with instructor.

MUS W 1525x-W 1526y

Instrumental Instruction

One one-hour private lesson weekly taught by associates in performance. See Columbia College Catalogue for section information. Students participating in the orchestra are given precedence when applying for private instrumental instruction.

Prerequisite: Audition (see under University Orchestra). (3 points tuition)

1 point. Hours TBA with instructor.

FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, R. Roseman; CLARINET: A. Blustine; BASSOON AND EARLY WIND INSTRUMENTS: M. Newman; FRENCH HORN: W. Purvis; TRUMPET: C. Gekker; TROMBONE: R. Borrer; TUBA: D. Braynard; DRUMS AND PERCUSSION: C. Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, B. Hudson, M. Raimondi; VIOLA: M. Gallagher; VIOLONCELLO: E. Bartlett, C. Gummere, M. Shuman; STRING BASS: L. McKnight, D. Palma; HARPSICHORD: K. Cooper; VIOLA DA GAMBA: L. Terry.

PAN AFRICAN STUDIES

408d Barnard Hall

854-2114

This program is supervised by the Committee on Pan African Studies:

Professor of Anthropology: Joan Vincent

Professor of English and American Studies: Robert G. O'Meally

Lecturer in Political Science: Leslie J. Calman

Assistant Professor of Religion: Judith Weisenfeld

Dean of the College: Dorothy S. Denburg

The Pan African Studies major is designed to provide students with a comparative perspective in their approach to the study of the history, politics, and cultures of peoples of African origin in Africa and the African Diaspora. The major is multi-disciplinary and differs from African Studies, Caribbean Studies and African-American Studies in that it encompasses the African influences in the experiences of peoples of African descent throughout the world.

REQUIREMENTS FOR THE MAJOR

- I. Two semester sequence - *Introduction to Africa* and *Introduction to the African Diaspora* (preferably to be taken before the junior year.)
 - Fall 1992 ANT V 3005x *Societies and Peoples of Africa.*
 - Spring 1993 HIR V 3750y *Introduction to African American History and Culture.*
 - One semester - Junior Colloquium in Pan African Studies
 - Spring 1993 REL V3804 y Sec. 37. *Black Women's Religious Experiences.*
 - PAS BC 3998x and PAS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for PAS 3998x or 3999y.
- II. Each student must demonstrate proficiency in any of the languages of Africa or the Diaspora (in addition to English) by completing at least the fourth semester of that language, or its equivalent. Languages may include Swahili, Hausa, Arabic, French, Spanish, Dutch, and Portuguese.
- III. Each student will select one of the following tracks:
 - A. The Regional Track
In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan African Studies) in one of the following geographic areas:
 - Africa
 - The Caribbean
 - Latin America
 - North America
 - B. The Divisional Track
In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan African Studies) either in the social sciences or in the humanities.
- IV. In addition, in consultation with the adviser, the student will take two electives (from among those courses designated by the Committee on Pan African Studies.) The total number of courses for the major is 11, exclusive of the foreign language.

PHILOSOPHY

326 Milbank Hall

854-4689

Professors: Alan Gabbey (Chair), Sue Howard Larson³, Mary Mothersill

Assistant Professors: Noa Latham, Robert Myers

Adjunct Associate Professor: John Arras

Lecturers: Eric Katz (Environmental Science), John Lad, Claudine Verheggen

Other officers of the University offering courses in Philosophy:

Professors: Bernard Berofsky, Haim Gaifman, Richard F. Kuhns, Jr., Charles Larmore, Isaac Levi, Thomas Pogge¹, David Sidorsky

Associate Professors: David Albert, Akeel Bilgrami, Shaughan Lavine

Assistant Professors: John Collins, Bonnie Kent, Wolfgang Mann, Christia Mercer¹

Adjunct Assistant Professors: Michael Kelly, Cheryl Mendelsohn

¹Absent on leave 1993-94

²Absent on leave Autumn Term

³Absent on leave Spring Term

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of science and logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in techniques of conceptual analysis, argument, and the interpretation of texts.

Although not required for the major, students who have not had previous training in philosophy are advised to take either Philosophy BC 1001, *Introduction to Philosophy: Problems and Concepts*, or Philosophy BC 1002, *Introduction to Philosophy: Styles and Systems*. (Credit will not be given for both courses.)

REQUIREMENTS FOR THE MAJOR

I. A major in Philosophy consists of at least 10 courses, made up as follows:

1. One course on ancient or early medieval philosophy:

Philosophy V 1101	<i>The History of Philosophy: Pre-Socratics through Augustine</i>
Philosophy V 3121	<i>Plato</i>
Philosophy V 3131	<i>Aristotle</i>

2. One course on medieval or early modern philosophy:

Philosophy V 1201	<i>The History of Philosophy: Aquinas through Kant</i>
Philosophy V 3222	<i>Descartes, Spinoza and Leibniz</i>
Philosophy V 3230	<i>Seventeenth-Century Philosophy: Bacon to Locke</i>
Philosophy V 3240	<i>Locke, Berkeley and Hume</i>
Philosophy V 3250	<i>Eighteenth-Century Philosophy: Locke to Kant</i>

3. One course on either Symbolic or Formal Logic:

Philosophy F 3410	<i>Formal Logic</i>
Philosophy V 3411	<i>Symbolic Logic: Formal Introduction</i>
Philosophy V 3415	<i>Symbolic Logic: Philosophical Introduction</i>

4. One course in Moral Philosophy: V 3701

5. One of the following courses:

A specific philosopher no later than Kant	
Philosophy BC 3483	<i>Theory of Meaning</i>

Philosophy V 3501	<i>Theory of Knowledge</i>
Philosophy BC 3601	<i>Metaphysics</i>

6-7. Two semesters of the Majors' seminar: BC 3288-BC 3289.

8-10. Three electives.

II. Department Examination—New Requirement:

Junior and senior comprehensives will be given in mid-spring semester of those years. The examinations will be take-home and will cover in a general way the course material. The Junior examination will be adjusted to the particular courses a student has taken up to that time. The Senior examination will cover the major as a whole. Performance on these examinations will be included in determining Honors.

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chair of the department as early in their planning as possible.

Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

Limited Enrollment Courses

First day attendance required. Instructor will determine and post class list. Prerequisites: one philosophy course or permission of the instructor unless otherwise specified.

COURSES OF INSTRUCTION

PHI BC 1001x, y Introduction to Philosophy: Problems & Concepts Interpretation and analysis of major topics in ethics, metaphysics, and theory of knowledge. Readings from historical and contemporary sources, primarily within the Western tradition. —Staff <i>Limited enrollment. No prerequisites.</i> III H 3 points. x: Sec. 1 M W 11:00-12:15 —R. Myers Sec. 2 Tu Th 10:35-11:50 —N. Latham Sec. 3 Tu Th 1:10-2:25 —N. Latham y: Sec. 1 M W 11:00-12:15 —C. Verheggen Sec. 2 M W 1:00-2:25 —C. Verheggen Sec. 3 Tu Th 10:35-11:50 —J. Lad	Western and non-Western. —J. Lad. <i>Limited enrollment. No prerequisites.</i> 3 points. x: M W 1:10-2:25 y: Tu Th 1:10-2:25 I H
PHI V 1101x The History of Philosophy: I Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. —B. Kent 3 points. Tu Th 11:00-12:15 III H	
PHI BC 1201y The History of Philosophy: II Exposition and analysis of the positions of the major philosophers from Aquinas through Kant. —A. Gabbey 3 points. M W 2:40-3:55 III H	
PHI BC 1002x, y Introduction to Philosophy: Styles and Systems Examination of different conceptions of philosophy, its questions and its methods, as they arise in different historical and cultural contexts, both	PHI V 3121 Plato 3 points. <i>Not offered in 1993-94.</i> III H

PHILOSOPHY

PHI V 3131x
Aristotle

An introduction to the leading concepts and doctrines of Aristotle's philosophy through analysis of selected texts in logic, physics, psychology and metaphysics. —W. Mann
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 2:40-3:55 III H

PHI BC 3147
Philosophical Issues of Feminist Theory

3 points. Not offered in 1993-94. I H

PHI BC 3161
Greek Philosophy

3 points. Not offered in 1993-94. III H

PHI V 3222
Descartes, Spinoza and Leibniz

3 points. Not offered in 1993-94. III H

PHI V 3230x
Seventeenth-Century Philosophy

Selected doctrines and issues attending "the Birth of Philosophy." Skepticism; empiricism and rationalism; faith and reason; perception; metaphysics; methodology; spirit and matter; moral and civic philosophy; philosophy and science. Principal thinkers are normally selected from: Bacon, Hobbes, Gassendi, Descartes, Pascal, Spinoza, Leibniz, Malebranche, the Cambridge Platonists, Anne Conway, Locke. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 III H

PHI V 3232y
Renaissance Philosophy

A study of philosophical doctrines and issues that were characteristic of different times and different parts of Europe during the period from Petrarch (14th century) to Francis Bacon (early 17th century). The doctrines and issues are considered in relation to institutional, religious and scientific developments. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 III H

PHI V 3240
Locke, Berkeley and Hume

3 points. Not offered in 1993-94. III H

PHI V 3250y
Eighteenth-Century Philosophy

Selected doctrines and issues in "The Age of Reason." Ideas and perception; reason and the passions; knowledge and belief; spirit and matter; deism and atheism; philosophy and science; rationalism and empiricism. Principal thinkers are normally selected from: Locke, Bayle, Leibniz, Newton, Berkeley, Hutcheson, Hume, Reid, the French and German Enlightenments, Kant. —R. Myers
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 10:35-11:50 III H

PHI V 3251
Kant

3 points. Not offered in 1993-94. III H

PHI V 3270
Nineteenth-Century Philosophy

3 points. Not offered in 1993-94. III H

PHI V 3301x
Twentieth-Century Philosophy

The views of four major philosophical movements of the first half of the twentieth century—pragmatism, logical positivism, existentialism and linguistic analysis—are examined in their cultural context. Discussion of the works of the more recent post-modernist philosophers as critics of these movements. Readings from James, Bergson, Moore, Russell, Carnap, Wittgenstein, Austin, Husserl, Heidegger, Sartre, Foucault, Derrida and DeLueze. —D. Sidorsky
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 2:40-3:55 III H

PHI BC 3352
Recent European Philosophy

3 points. Not offered in 1993-94. III H

PHI BC 3364x
Wittgenstein

Wittgenstein's views in relation to Frege and Russell. Discussion of the central problems in his books, e.g., logical form, truth, rule-following, privacy, certainty, and psychological concepts. —S. Larson
3 points. Tu Th 2:40-3:55 III H

PHI BC 3380
Habermas

3 points. Not offered in 1993-94. III H

PHI V 3411x, y

Symbolic Logic: Formal Introduction

Sentential and first-ordered logic, the significance of a formal system and its use for the analysis of meaning and language. Technical exercises are combined with analysis and parsing of English sentences. —S. Lavine

No prerequisites. Note: a student may not take both V3411 and V3415 for credit.

4 points. x: M W 11:00-12:15

y: M W 11:00-12:15 H

PHI V 3415

Symbolic Logic: Philosophical Introduction

4 points. Not offered in 1993-94. H

PHI BC 3483y

Theory of Meaning

3 points. Not offered in 1993-94. III H

PHI V 3501y

Theory of Knowledge

Introduction to the central problems of epistemology: the nature and significance of philosophical skepticism; the justification of inductive inference; the possibility of a priori knowledge; the relation between theory and evidence. —R. Myers

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 1:10-2:25 III H

PHI V 3574

The Scientific Revolution

3 points. Not offered in 1993-94. III H

PHI C 3576y

Physics and Philosophy

Philosophical problems at the foundations of quantum theory, especially those having to do with the uncertainty relations and the nature of quantum-mechanical indeterminacy. Exploration of a variety of philosophical approaches, including the many-worlds interpretation and hidden-variable theory. —D. Albert

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55 H

PHI BC 3601x

Metaphysics

Systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors. —S. Larson

3 points. M W 1:10-2:25 III H

PHI BC 3610

Metaphysics of Logical Atomism and the Tractatus

3 points. Not offered in 1993-94. III H

PHI BC 3651x

Philosophy of Mind

Examination of the place of mind in the physical world. The relation of mental states to behaviour and neurophysiology; problems concerning consciousness and subjectivity. —C. Verheggen

3 points. M W 1:10-2:25 III H

PHI BC 3657

Philosophical Idealism and Psychoanalytic Theory

3 points. Not offered in 1993-94. III H

PHI BC 3680

Attitude, Action and Reason

3 points. Not offered in 1993-94. III H

PHI BC 3690

Action, Emotion and Rationality

3 points. Not offered in 1993-94. III H

PHI V 3701x

Moral Philosophy

Introduction to the central problems of moral philosophy: alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action; individual rights and social justice. —R. Myers

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55 III H

PHI BC 3716

Topics in Moral Philosophy

3 points. Not offered in 1993-94. III H

PHI BC 3720x

Ethics and Medicine

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans; justice and access to health care; human genetics.—J. Arras

Limited enrollment.

3 points. Tu 2:30-5:30 H

PHI BC 3751

Social and Political Philosophy

3 points. Not offered in 1993-94. III H

PHILOSOPHY

PHI BC 3758y
Philosophy of Education

Drawing on classical and contemporary sources, discussion will focus on the conditions necessary to produce free and responsible citizens of a just and democratic society. Readings from Plato, Rousseau, Dewey and others. —R. Myers

No prerequisites.
3 points. Tu Th 1:10-2:25 III H

PHI C 3780y
Philosophy of Law

The uses of law. Among the topics covered are the nature of harm, paternalism, welfare legislation, obscenity, deterrence and retributive theories of punishment, justification and excuse, the insanity defense, the death penalty, the relation of law to morality. —C. Mendlelson

No prerequisites.
3 points. Tu Th 4:10-5:25 III H

PHI V 3801x
Aesthetics

Open to students in philosophy, the various literary disciplines, and art history. Expression theories of art (Hegel, Nietzsche, Croce, Freud); the meaning of “modern” (Kant and Heidegger); imitation theories of art (Plato and Aristotle). Contemporary theories of criticism. —R. Kuhns

Limited enrollment.
3 points. Tu Th 2:40-3:55 III H

PHI V 3803
The Concept of Beauty

3 points. Not offered in 1993-94. III H

PHI V 3850
Concept of Literature

3 points. Not offered in 1993-94. H

PHI BC 3881x
The Idea of God

Arguments for and against belief in God, the relevance of rationality to theistic belief, the attributes of God, religious experience, the relation of religion to morality. Focus is primarily on the Judeo-Christian tradition. Readings drawn from classical and contemporary sources. —N. Latham
Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15 III H

PHI BC 3925
Skepticism

3 points. Not offered in 1993-94. III H

PHI BC 3288x, 3289y
Majors' Seminar

Intensive study of selected philosophical classics; discussions, oral reports, and term papers.

3 points. x: W 4:00-6:00 —S. Larson
y: W 4:00-6:00 —N. Latham H

PHI BC 3399x, 3399y
Supplementary Readings in Philosophy

To be taken only with the consent of the instructor or the department chair.

3 points. H

ESP BC 3025y
Ethics and the Environment

Philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory. —E. Katz

No prerequisites.
3 points. Tu Th 2:40-3:55 H

COURSES OFFERED AT
REID HALL IN PARIS

The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Philosophy H 3550x, y
Aspects of Contemporary French Thought

An overview of recent developments in French Philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought. Attendance at selected lectures by Jacques Derrida at the College de Philosophie and Gilles Deleuze at the Université de Paris VIII. —L. Laveggi
Recommended preparation: an introductory course in philosophy.

3 points. III H

PHYSICAL EDUCATION

209 Barnard Hall

854-2085

Senior Associates: Sharon Everson, Jean Follansbee (Chair)

Lecturer: Molly Wynne

Associates: Priscilla Gilmore, Wendy Marks, Laura Masone

DEGREE REQUIREMENT

Students admitted as first year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation.

Health Status: Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of the Director of Health Services.

Curriculum: The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals: The Physical Education Department offers an extensive intramural program which features basketball, bowling, indoor soccer, and volleyball. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information contact the Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation: Recreational use of the gymnasium, swimming pool, track and weight room is available at specified times. All students, faculty, and staff are encouraged to use the facilities.

Intercollegiate Athletics: The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition students are eligible to qualify for state, regional and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Merry Ormsby, Associate Director of Athletics, Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration: Registration for the term takes place in the gymnasium at the beginning of each semester. After confirming registration with the Physical Education Department students should include the Physical Education course by number, section, title and I.D. number on final programs filed with the Registrar.

PHYSICAL EDUCATION

Cross Registration: An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course. Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.

Courses: Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning, Advanced Beginning, Intermediate.

COURSES OF INSTRUCTION

PED BC 1101x, y

Lifetime Fitness and Wellness

Introduction to the fundamental principles of wellness and physical activity including physical fitness, health and wellness assessments. Topics include practical concerns for self-management within an active lifestyle and disease prevention.

AQUATIC COURSES

PED BC 1120x, y

Beginning Swimming

Development of confidence and safety skills in the water. Introduction of front crawl, elementary backstroke and deep water skills. No previous experience required.

PED BC 1121x, y

Advanced Beginning Swimming

Review of safety skills, front crawl and elementary backstroke. Further development of deep water skills. Introduction of breaststroke.

PED BC 3125x, y

Lap Swim

Students determine an individual training program with the instructor on a contract basis. *Not open to first-year students. Swimming fitness test for class admission given prior to first class meeting.*

PED BC 3129y

Water Safety Instructor Course

Review of swimming skills and instruction in teaching techniques for preschool through swimmer courses and elementary forms of rescue; leads to American Red Cross certification. *Successful completion of PED BC3131x or equivalent American Red Cross certification. Swimming test for class admission given prior to first class meeting.*

PED BC 3131x

Lifeguard Training and First Aid

Pool management, preventive lifeguarding, swimming and equipment rescues; leads to two American Red Cross certifications. *Swimming test for class admission given prior to first class meeting.*

PED BC 3132y

Lifeguard Training Instructor

Review of lifeguard training skills and instruction in teaching techniques; leads to American Red Cross certification. *Current CPR, First Aid and Lifeguard Training certificates required.*

SPORTS COURSES

PED BC 1350x, y

Archery

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, y

Varsity Team-Archery

Practice and intercollegiate competition in Indoor Target Archery. *Permission of coach required. For other varsity teams see Columbia course offerings.*

PED BC 1353x, y

Badminton

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

PED BC 1357x, y

Beginning Bowling

Basic techniques of spot bowling and spare conversion; scoring and game play.

PED BC 1360x, y
Beginning Fencing

Basic offensive and defensive foil techniques; footwork; rules and officiating.

PED BC 1362x, y
Golf

Introduction to the game of golf through a variety of indoor drills to develop all facets of the game; includes proper club selection, effective swing techniques and the “long and short” game.

PED BC 1364x, y
Beginning Tennis

Fundamentals of forehand, backhand and serve. Introduction to rules, scoring and etiquette.

PED BC 1365x, y
Advanced Beginning Tennis

Refinement of forehand, backhand, and serve. Further instruction in scoring, rules, tactics, and etiquette. Introduction of the volley and doubles play. *Completion of Beginning Tennis or permission of the instructor is required.*

PED BC 1470x, y
Volleyball

Introduction of forearm pass, overhead pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1582x, y
Aerobics

Combination low/moderate impact cardio-vascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, y
Self-Paced Cycling

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis. *Completion of one physical education course required. Cycling test for class admission given prior to first class meeting.*

PED BC 1583x, y
Beginning Fitness

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y
Advanced Beginning Fitness

Continuation of beginning fitness; designed for the individual at a medium level of fitness.

PED BC 1585x, y
Beginning Weight Training

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y
Advanced Beginning Weight Training

Continuation of beginning weight training; emphasis on free weights and individualized training. *Completion of Beginning Weight Training or permission of the instructor required.*

SPECIAL COURSES

PED BC 1690x, y
Beginning Self-Defense

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, y
Beginning Yoga

Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 2799x, y
Independent Study

Enrollment in a course of instruction. *Not open to first year or transfer students. Approval of Department required. Limited to one semester of credit.*

DANCE

See Dance Department (page 115) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement. Dance courses taken to fulfill the Physical Education requirement do not carry academic credit.

Courses offered are:

- Ballet: Beginning Low Intermediate, Intermediate, Advanced.
- Jazz: Low Intermediate, Intermediate.
- Modern: Beginning, Low Intermediate, Intermediate.
- Tap: Beginning, Intermediate.

PHYSICS AND ASTRONOMY

404 Altschul Hall

854-7303

Professor: Richard Friedberg¹ (Chair)

Assistant Professors: Timothy Halpin-Healy², Laura Kay, Sally Koutsoliotas

Other officers of the University offering courses listed below:

Professors: David Helfand, Wongyong Lee, Kevin Prendergast, Mal Ruderman, Melvin Schwartz, Frank Sciulli, Jacob Shaham, Ed Spiegel

Associate Professors: James Applegate, Elena Aprile, Christopher Martin, Joseph Patterson

Assistant Professors: Timothy Bolton, Allan Caldwell, Arlin Crotts, Philip Kaaret, Michael Rich, Steven Ritz, Peter Rowson

¹Absent on leave Autumn term.

²Absent on leave Spring term.

From Aristotle's *Physics* to Newton's *Principia*, the term "physics," taken literally from the Greek φυσικς = Nature, implied natural science in its very broadest sense. Physicists were, in essence, natural philosophers, seeking knowledge of the observable phenomenal world. Astronomy, a sibling science to physics, concentrated specifically on the study of natural phenomena in the heavens with the intent to understand the constitution, relative positions, and motions of the celestial bodies in our universe. Though practitioners of these disciplines have become somewhat more specialized in the past century, the spirit that guides them in their research remains the same as it was more than two millennia ago.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum in both physics and astronomy. The faculty represents a wide range of expertise, with special strength and distinction in theoretical physics, condensed matter physics, chemical physics, and observational astronomy.

Separate majors in physics and astronomy are offered. Furthermore, there are many special interdisciplinary majors possible, such as biophysics, chemical physics, engineering physics, and mathematical physics. There is a physics minor, as well. Students should consult members of the department early on in their undergraduate careers in order to plan the most effective course of study.

A major examination is required for both astronomy and physics; there is no senior essay required for either. Qualified seniors are invited to participate in the seniors honors program in which they carry out a year-long research project leading to the thesis.

The department offers several quite distinct introductory sequences in physics, only one of which may be taken for credit, including:

1. PHY V 1305-6, *Physics in Historical Perspective*, is a two-semester introduction to physics intended for liberal arts students. This course is taught on the Barnard campus and satisfies the Barnard Lab Science requirement. It does not fulfill the premedical requirement or the physics requirement for any major.
2. PHY V 1003-4, *General Physics*, is satisfactory preparation for medical school and is appropriate for most nonscience major premedical students. This course, devoted to algebra-based physics, is taught at Columbia in a large lecture hall setting. It is not recommended as a foundation for more advanced work in the field.
3. PHY BC 1206-8, *Physics I, II, III*, is Barnard's own three-semester, calculus-based introductory sequence in physics. Characterized by modest class sizes, the sequence is designed specifically for Barnard women with a serious interest in any of the natural sciences or mathematics. Note that PHY BC 1206x, *Physics I: Mechanics*, which will be taught in Autumn 1993, followed in the spring by PHY BC 1207y, *Physics II: Electricity & Magnetism*, satisfies the physics requirement for students majoring in a science other

than physics. It is especially appropriate for premedical students in the chemistry and biochemistry departments. Biology premedical students with some calculus background should also be in this sequence. Finally, Barnard women contemplating a major in physics or astronomy should take PHY BC 1206y in the spring of their first year.

4. First-year students with exceptional aptitude for physics (as evidenced, for example, by scores of 4 or 5 on the advanced placement C exam) and a good mathematical background may be admitted into the Columbia-taught two-semester sequence, PHY C 1021-22, *General Physics*, which replaces all three terms of the Barnard sequence PHY BC 1206-8. Students inclined towards this sequence are strongly encouraged to consult a Barnard faculty member at the start of the term.

Students unsure about the most appropriate sequence should consult members of the department.

The following courses may be substituted for each other:

PHY BC 1206, and C 1406 with W 1906

PHY BC 1207, and C 1407/1607 with W 1907

AST V 1753-4 and C 1403-4

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE ASTRONOMY MAJOR

The courses required for the major in astronomy are:

PHY BC 1705 *The Early Universe*

PHY BC 1206 *Physics I: Mechanics*

PHY BC 1207 *Physics II: Electricity & Magnetism*

PHY BC 1208 *Physics III: Waves, Optics and Quantum Physics*

Students may substitute a Columbia College four-semester calculus-based introductory physics sequence with lab, as in the physics major.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Also:

AST C 1203, 1204 *Introduction to Astrophysics I, II*

Students who have taken AST V 1753-4 (*Introduction to Astronomy I, II*) or

C 1403-4 may substitute an additional 3000-level AST course for AST C 1203-4.

Finally, students are required to take four 3000-level AST or PHY courses, including at least one of AST C 3102 or PHY W 3003 *Mechanics*, and selected so that at least six total points of 3000-level lecture classes are AST courses. Some of the AST courses offered in recent years include:

AST C 3101 *Stellar Structure and Evolution*

AST C 3102 *Planetary Dynamics and Physics of the Solar System*

AST C 3103 *Galaxies and the Interstellar Medium*

AST C 3104 *Cosmology*

AST C 3302 *General Relativity, Cosmology, and Black Holes*

AST C 3461 *Order and Disorder*

AST C 3646 *Observational Astronomy*

Students planning to study astronomy or astrophysics in graduate school are strongly urged to take PHY W 3003, 3007-8, 3021-22, some additional courses in mathematics and Computer Science W 1005 *Fortran Programming*. Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.

PHYSICS AND ASTRONOMY

REQUIREMENTS FOR THE PHYSICS MAJOR

The courses required for the major in physics are:

PHY BC 1206y	<i>Physics I: Mechanics</i>
PHY BC 1207x	<i>Physics II: Electricity & Magnetism</i>
PHY BC 1208y	<i>Physics III: Waves, Optics and Quantum Physics</i>

In addition, students are strongly encouraged to take PHY BC 1705x *The Early Universe*. In lieu of the above, any four-semester Columbia College introductory sequence in calculus-based physics with laboratory will do (e.g., PHY C 1406-7 taken with PHY W 1906-7, followed by PHY C 1011-12). The accelerated two-semester Columbia College sequence PHY C 1021-22 is also acceptable.

Calculus through IIS/IVA is required, with additional work in mathematics recommended. Ideally, this preliminary coursework would be completed by the end of the sophomore year.

At the upper level:

PHY W 3003	<i>Mechanics</i>
PHY W 3021	<i>Quantum Physics</i>
PHY W 3022	<i>Statistical Physics</i>
PHY W 3007	<i>Electricity and Magnetism</i>
PHY W 3008	<i>Electromagnetic Waves and Optics</i>

are required as are 4.5 points total of advanced lab work via PHY W 3082/W 3081. Finally, the student must take Computer Science W 1005 *Fortran Programming* or PHY W 3083 *Electronics Laboratory*.

Students planning to study physics in graduate school should try to include PHY G 4003 *Lagrangian Mechanics* and PHY G 4021 *Quantum Mechanics* in their senior year program.

Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.

INTERDISCIPLINARY MAJORS

Special majors in, for example, biophysics, chemical physics, engineering physics or mathematical physics, are all possible and are arranged in conjunction with the relevant second department at Barnard. Students interested in such possibilities should speak to a faculty member early on (i.e., by late fall of her sophomore year) in order to permit the most effective construction of her program of study and the appropriate petition to be made to the Committee on Programs and Academic Standing. The latter is a straightforward procedure associated with the declaration of all special majors at Barnard.

REQUIREMENTS FOR THE PHYSICS MINOR

Five courses are required for the minor in physics. They are: PHY BC 1705 *The Early Universe*, PHY BC 1206-8, which is Barnard's three-semester introductory calculus-based sequence in physics, and one 3-point course at the 3000 level. A second 3-point course at the 3000 level may be substituted for PHY BC 1705. See note at end of "Physics Major."

COURSES OF INSTRUCTION

ASTRONOMY COURSES

AST V 1403x

Earth, Moon and Planets (lecture)

The overall architecture of the solar system. Motions of the celestial sphere. Time and the calendar. Life

in the solar system and beyond. —A. Crotts

Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: a working knowledge of high school algebra.
3 points. Tu Th 1:10-2:25

AST V 1404y

Beyond the Solar System

Distances to, and fundamental properties of, nearby stars; nucleosynthesis and stellar evolution; novae and supernovas; galaxies; the structure of the universe and theories concerning its origin, evolution, and ultimate fate. —D. Helfand
Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: a working knowledge of high school algebra.
 3 points. M W 1:10-2:25

AST V 1753x

Introduction to Astronomy I

An introduction to astronomy, taught at Barnard, intended primarily for non-science majors. Includes the history of astronomy, the apparent motions of the moon, sun, stars, and planets, gravitation and planetary orbits, the physics of the Earth and its atmosphere, and the exploration of the solar system. —L. Kay
Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1903x.
 3 points. M W 1:10-2:25

AST V 1754y

Introduction to Astronomy II

The properties of stars, star formation, stellar evolution and nucleosynthesis, the Milky Way and other galaxies, and the cosmological origin and evolution of the universe. —L. Kay
Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1904y.
 3 points. M W 1:10-2:25

AST C 1836y

Stars and Atoms

A study of the life cycle of stars, from their birth in cold gas clouds to their final death throes in supernovas explosions. The turn-of-the-century revolution in physics: x-rays, radioactivity, the nuclear atom, and the quantum theory. Energy production by nuclear fission and fusion, and its consequences. —J. Patterson
Recommended preparation: a working knowledge of high school algebra.
 3 points. M W 1:10-2:25

AST C 1903x

Earth, Moon, and Planets Laboratory

This laboratory is for the lecture courses AST V 1753x or AST C 1403x. The lecture course must be taken concurrently. —L. Kay and staff
Corequisite: AST V 1753x or AST C 1403x.
 1 point, hours TBA.

AST C 1904y

Stars, Galaxies, and Cosmology Laboratory

This laboratory is for the lecture courses AST V 1754y or AST C 1404y. The lecture course must be taken concurrently. —L. Kay and staff
Corequisite: AST V 1754y or AST C 1404y.
 1 point, hours TBA.

AST C 1203x

Introduction to Astrophysics I

The first term of a two-term calculus-based introduction to astronomy and astrophysics. Topics include the physics of stellar interiors, stellar atmospheres and spectral classifications, stellar energy generation and nucleosynthesis, supernovas, neutron stars, white dwarfs, interacting binary stars. —M. Rich
Prerequisite: a working knowledge of calculus.
 3 points. Tu Th 2:40-3:55

AST C 1204y

Introduction to Astrophysics II

Continuation of AST C 1203x. Topics include the structure of our galaxy, the interstellar medium, star clusters, properties of external galaxies, clusters of galaxies, active galactic nuclei, cosmology. —M. Rich
 3 points. Tu Th 2:40-3:55

AST C 3101

Stellar Structure and Evolution

Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. Not offered in 1993-94.

AST C 3102

Planetary Dynamics and Physics of the Solar System

Topics include orbital dynamics, planetary rings, planetary atmospheres, interiors of terrestrial and Jovian planets, comets, and the solar wind. —K. Prendergast
Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. M W 2:40-3:55

AST C 3103y

Galaxies and the Interstellar Medium

Prerequisite: a working knowledge of calculus and university-level introductory physics.
 3 points. Not offered in 1993-94.

PHYSICS AND ASTRONOMY

AST C 3104y **Cosmology**

Topics include the expansion of the universe, the extragalactic distance scale, Friedmann models, the microwave background, primordial nucleosynthesis, formation of galaxies, clusters and superclusters of galaxies, inflation, dark matter, the particle physics connection. —J. Applegate
Prerequisite: a working knowledge of calculus and university-level introductory physics.
3 points. Tu Th 1:10-2:25

AST C 3302x **General Relativity, Cosmology, and Black Holes**

Prerequisite: a working knowledge of calculus and elementary physics.
3 points. Not offered in 1993-94.

AST W 3461x **Order and Disorder in Nature**

Modern views of dynamics, catastrophe theory, chaos, strange attractors, solitons, cellular automata: with applications to astronomy and astrophysics, such as sunspot cycles, and to other branches of the natural sciences. —E. Spiegel
Prerequisite: Math V 1102 or the equivalent, or permission of the instructor.
3 points. Tu Th 2:40-3:55

AST C 3646x **Observational Astronomy**

An introduction to the basic techniques used in obtaining and analyzing astronomical data. Most of the semester will be devoted to "ground-based" methods, at optical, infrared, and radio wavelengths. Regular use will be made of the telescope facilities atop the roof of Pupin Labs, and at the Harriman Observatory. The radio astronomy portion will consist mostly of computer labs. In research projects, students will also work on the analysis of data obtained at National Observatories. —J. Patterson
Prerequisites: 3 points of previous course-work in astronomy or physics; by permission this can be a corequisite.
3 points. F 11:00-12:15 2 hours TBA

AST C 3997x and C 3998y **Seminar and Research Course**

Topics in current research. —J. Applegate
1-3 points. Hours TBA.

For description of other astronomy courses see the Columbia College Bulletin.

PHYSICS COURSES

PHY V 1305x, 1306y **Physics in Historical Perspective**

Oriented primarily to non-science students, who wish to gain a fairly rigorous understanding of physics. No previous background in physics is assumed, but a willingness to review and use elementary algebra is required. Laboratory 3 consecutive hours weekly, times TBA during first class.
4.5 points. Not offered in 1993-94.

PHY V 1405 **Physics in Historical Perspective**

Course V 1305x, but without the laboratory.
3 points. Not offered in 1993-94.

PHY V 1003x, 1004y **General Physics**

Mechanics, heat, electricity, magnetism, optics, and modern physics. -x: T. Bolton, y: J. Shaham
No prerequisite. Non-calculus based approach.
4 points. Lecture M W 11:00-12:15
Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00.
Laboratory sections are arranged after the first class meeting.

PHY BC 1705x **The Early Universe**

This course is meant to expose students, particularly first-year Barnard students contemplating a possible major in the sciences, to the most exciting developments in 20th century physics. No knowledge of calculus is necessary, nor any previous study in physics, only a willingness to employ algebra, geometry and trigonometry to assist one's critical thinking about subtle scientific issues. Enrollment limited to 12.
3 points. Not offered in 1993-94.

PHY V 1900x, y **Seminar in Contemporary Physics and Astronomy**

Lectures on current areas of research with discussions of motivation, techniques, and results, as well as difficulties and unsolved problems. Each student submits a written report on one field of active research. —M. Schwartz
Prerequisite or corequisite: any 1000-level course in the Physics or Astronomy departments. This course may be repeated for credit only with the instructor's permission.
1 point. F 11:00-12:00

PHY BC 1206x

Physics I: Mechanics

Fundamental laws of mechanics. Kinematics, Newton's Laws, work and energy, oscillations, gravitation, conservation laws, collisions, rotation. —Instructor TBA

Corequisite: Calculus I or the equivalent.

4.5 points. Tu Th 10:35-11:50

Laboratory hours TBA.

PHY BC 1207x, y

Physics II: Electricity and Magnetism

Charge, electric field, and potential. Gauss' Law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance. Alternating currents. Maxwell's equations, waves. —x: A. Caldwell, y: Instructor TBA

Prerequisite: Physics BC 1206y or the equivalent.

Corequisite: Calculus II.

4.5 points. Tu Th 10:35-11:50

Laboratory hours TBA.

PHY BC 1208y

Physics III: Waves, Optics and Quantum Physics

Prerequisites: Physics BC 1207x or equivalent.

Corequisite: Calculus III.

4.5 points. Not offered in 1993-94.

Laboratory hours TBA.

PHY BC 1708y

Physics III: Waves, Optics and Quantum Physics

Lectures of BC 1208y, without the laboratory.

Prerequisite: Physics BC 1207x or equivalent.

Corequisite: Calculus III.

3 points. Not offered in 1993-94.

PHY C 1021x, 1022y

General Physics

Mechanics, heat, electricity, magnetism, and light. —S. Ritz

Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus and permission of the departmental representative.

(A special placement meeting is held during Orientation Week.)

4 points. Lecture Tu Th 10:35-11:50

Laboratory 3 hours TBA at the first class meeting.

PHY W 3003x

Mechanics

Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. —F. Sciulli

Prerequisites: General physics and integral calculus.

3 points. M W 11:00-12:15

PHY W 3007y

Electricity and Magnetism

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansion. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity. —R. Friedberg

Prerequisites: C 1407 or the equivalent, and differential and integral calculus.

3 points. M W 11:00-12:15

PHY W 3008x

Electromagnetic Waves and Optics

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. —W. Lee

Prerequisite: W 3007.

3 points. M W 9:35-10:50

PHY W 3021x

Quantum Physics

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance. —J. Shaham

Prerequisite: C 1012 or C 1022 or the equivalent.

3 points. Tu Th 9:00-10:15

PHY W 3022y

Thermal and Statistical Physics

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors. —P. Rowson

Prerequisite: W 3021x.

3 points. Tu Th 9:00-10:15

PHYSICS AND ASTRONOMY

PHY W 3072y

Seminar in Current Research Problems

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. —M. Ruderman

Open only to senior majors. May be taken for Pass/Fail credit only.

2 points. W 4:10-5:25

PHY W 3081x, y

Intermediate Laboratory Work

The laboratory has available 12 individual experiments, of which two are required for 1.5 points.

Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity.

Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.

—B. Knapp, M. May

For junior and senior physics majors. Other majors require permission of the instructor. May be repeated for credit by performing different experiments.

1.5 points. M or F 1:10-5:00

PHY BC 3082x, y

Advanced Physics Laboratory

Barnard College physics laboratory has available a variety of individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor, requires substantial preparation, and is followed up by written and oral presentations. Registration is limited by laboratory capacity.

Experiments investigate Poisson Statistics, beta decay, driver oscillators, as well as high-temperature superconductivity. Numerical (i.e., computer) experiments in statistical physics and chaos are also possible, using the department's minicomputer facility. —x: T. Halpin-Healy, y: Instructor TBA

Intended primarily for junior and senior physics/astro majors and may be repeated for credit by performing different experiments. Enrollment limited to 6.

1.5 points. Laboratory hours TBA.

PHY W 3083x, y

Electronics Laboratory

Experiments in solid state electronics, with introductory lectures.— x: E. Aprile, y: C. Martin

Permission of the instructor required.

Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.

2 points. M W 1:00-4:00

PHY V 3500x, y

Supervised Readings in Physics

Readings in a selected field of physics under the supervision of a faculty member. Written reports

and periodic conferences with the instructor. —Staff
Prerequisite: written permission of the faculty member who agrees to act as supervisor and the permission of the departmental representative.

3 points.

PHY V 3900x, y

Supervised Individual Research

For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. —Staff

Permission of the department representative required.

1 to 5 points a term.

PHY G 4003y

Lagrangian Mechanics

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes. —K.Y. Lee

Prerequisite: W 3003.

3 points. M W 9:35-10:50

PHY G 4021x

Quantum Mechanics

The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically-symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms. —P. Kaaret

Prerequisites: W 3003, W 3007, W 3021.

3 points. Tu Th 10:35-11:50

For a description of other courses see the Columbia College Bulletin.

PHY F 1003x, 1004y

General Physics

4 points. Lecture Tu Th 7:40-8:55. Lab TBA..

PHY W 1003y, 1004x

General Physics

4 points. Lecture M W 2:40-3:55. Lab TBA..

PHY C 1406x, 1407y

General Physics I, II

3 points.

PHY W 1906x, 1907y

Physics Laboratory

1 point.

PHY C 1011x, 1012y

General Physics III, IV

3.5 points.

Professors: Demetrios Caraley (Janet H. Robb Professor and Chair), Dennis Dalton (Ann Whitney Olin Professor), Peter Juviler, Richard M. Pious

Associate Professor: Ester Fuchs

Assistant Professors: Michael Delli Carpini (Departmental Representative), Judith Russell (Departmental Representative), J. Phillip Thompson, Naomi Weinberger

Instructors: Martin Malin, Sanya Popović

Lecturers: Leslie Calman, Flora Davidson

Adjunct Associate Professors: Rosalind Fink

Other officers of the University offering courses listed below:

Professors: David A. Baldwin¹, Thomas P. Bernstein, Richard Betts, Seweryn Bialer, Douglas Chalmers¹, Gerald L. Curtis, Julian H. Franklin², Charles V. Hamilton³, Robert Jervis, Mark Kesselman, Robert Legvold, Andrew Nathan, Joseph Rothschild³, Gregory Gause, Warner R. Schilling, Jack Snyder, Alfred Stepan, Alan F. Westin

Associate Professors: Lisa Anderson², Jean Cohen, Peter Johnson, David Johnston, Helen Milner³, Barnett Rubin, Robert Shapiro²

Assistant Professors: Charles Cameron, David Epstein, Carlton Long¹, Edward Mansfield, Anthony Marx, Sunita Parikh, David Spiro, Steven Solnick

¹Absent on leave Autumn Term

²Absent on leave Spring Term

³Absent on leave 1993-94

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

- A. Political Science BC 3001 *Dynamics of American Politics*
- B. One of the following courses:
 - Political Science V 3501 *Comparative Politics*
 - Political Science V 3601 *International Politics*
 - Political Science BC 3013 *Political Theory*
- C. Two colloquia or other courses having a research paper from among those courses designated by an asterisk (*); and
- D. Two semesters of research seminar for the thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, both majors and concentrators

POLITICAL SCIENCE

are required to write a senior essay as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

REQUIREMENTS FOR URBAN AFFAIRS MAJORS
WITH POLITICAL SCIENCE CONCENTRATION

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>

Two from the following courses:

Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8232	<i>Colloquium on Urban Politics, Policymaking, and Administration</i>

Two semesters of research seminar for the thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, y
Dynamics of American Politics

Examination of the dynamics of the American political system at the national level including political participation elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary. —Staff
Credit is not granted for both this course and C 3305.
3 points.

- x: Sec. 1 M W 11:00-12:15 —R. Pious
Sec. 2 M W 2:40-3:55 —J. Russell
y: Sec. 1 M W 11:00-12:15 —R. Pious
Sec. 2 Tu Th 10:35-11:50 —J.P. Thompson

POS BC 3007x
Modern Political Movements

Causes, structures and strategies of 20th-century political movements with particular reference to issues of imperialism, nationalism, race and gender. Case studies of Indian nationalism, Nazism, Bolshevism, civil rights and women's movement. —L. Calman
3 points. Tu Th 10:35-11:50 I S

POS BC 3013x, 3014y
Political Theory I, II

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change. —D. Dalton

Note: 3013 is a prerequisite for 3014. No credit is given for BC 3014 unless BC 3013 has been satisfactorily completed.

3 points. Tu Th 9:10-10:25

S

POS V 3313y

American Urban Politics

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems. —J. Russell

3 points. M W 1:10-2:25

III S

POS V 3501y

Introduction to Comparative Politics

An introduction to major issues and theories in comparative politics, democratization and human rights. —P. Juviler

3 points. Tu Th 10:35-11:50

Discussion sections: W 1:10-2:00; W 2:10-3:00;

Th 12:10-1:00; Th 1:10-2:00

I S

POS V 3601x, y

International Politics

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x: Sec. 1 Tu Th 1:10-2:25 —M. Malin

Discussion sections: W 7:00-7:50pm;

Th 2:30-3:20; Th 5:00-5:50; Fri 11:00-11:50

Sec. 2 Tu Th 6:00-7:15 — H. Spruyt

Discussion section TBA

y: M W 11:00-12:15 — R. Jervis

Discussion section TBA

I S

POS BC 3345y

Statistical Analysis of Politics and Policy

Use of the microcomputer, including SPSS and electronic spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis. —E. Fuchs

Satisfies Quantitative Reasoning requirement.

Recommended prerequisite: BC 3001 or W 3305.

4 points. Tu Th 10:35-11:50

Lab: F 11:00-1:00

AMERICAN GOVERNMENT AND POLITICS

Lecture Courses

POS W 3320x

Contemporary Black Politics

An examination of the major issues in contemporary black politics including voting, black electoral campaigns, the role of African Americans in national politics, and African Americans in political office. —J.P. Thompson

3 points. M W 2:40-3:55

POS W 3245y

Race and Ethnicity in American Politics

The historical and contemporary roles of various racial and ethnic groups; initiation demands, leadership and organizational styles, and orientation, benefits, and impact on the structure and outputs of governance in the United States. —S. Parikh

3 points. Tu Th 1:10-2:25

POS BC 3322y

The American Congress

Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.

—M. Delli Carpini

Prerequisite: BC 3001 or the equivalent.

3 points. M W 2:40-3:55

S

POS BC 3325x

The Judicial Process

Prerequisite: BC 3001 or a course in American history. Not open to students who have taken W 3399.

3 points. Not offered in 1993-94.

S

POS W 3470y

Women in Politics

3 points. Not offered in 1993-94.

POS BC 3335x

Mass Media and American Democracy

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public. —M. Delli Carpini

Prerequisite: BC 3001 or the equivalent.

3 points. Tu Th 2:40-3:55

III S

POS BC 3336x, y

Workshop in Mass Media and Politics

Students intern at mass media organizations in New York City (newspapers, magazines, television, radio, etc.) while doing readings in media and politics. Reading lists are tailored to specific internships. Students meet every other week with instructor to discuss readings and connect them to internship experiences. Research paper required. —M. Delli Carpini

Junior or senior status: prearrange internship through Office of Career Services. Prerequisite or corequisite: POS BC 3335 or the equivalent.

Permission of the instructor required.

2 points. Hours TBA.

POS W 3399x

The Supreme Court and American Politics

The role of the Supreme Court and the judicial process in American government. The use of litigation as an instrument of politics. Issues of property, liberty, equality, and due process as treated by the courts. —A. F. Westin

Prerequisite: sophomore standing.

3 points. M W 11:00-12:15

POS W 3400y

Law and Politics of Civil Liberties

The current law on the civil liberties and civil rights of citizens; and emerging issues of individual rights at the workplace, particularly in corporate employment. —A. F. Westin

Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law.

3 points. M W 11:00-12:15

POS W 4311x

American Parties and Elections

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties. —E. Fuchs

3 points. M W 11:00-12:15

III S

POS W 4316x

The American Presidency

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious

Prerequisite: BC 3001 or the equivalent.

3 points. M W 1:10-2:25

III S

Colloquia

*POS BC 3326y

Colloquium on Civil Rights and Liberties

Exploration of some currently-evolving civil rights and liberties, primarily through analysis of Supreme Court decisions and pending cases. Topics include race and sex discrimination; sexual harassment; desegregation; affirmative action; freedom of expression; including pornography and "hate speech"; and abortion. —R. Fink

Prerequisite: BC 3001 or equivalent and permission of instructor.

4 points. M 4:10-6:00

S

*POS BC 3327x

Colloquium on Content of American Politics

Readings, discussions and reports on changing cleavages and policy issues in American national politics since the 1960s.

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. Not offered in 1993-94.

III S

*POS BC 3331y

Colloquium on American Political Decisionmaking

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition. —R. Pious

4 points. M 2:10-4:00

I S

*POS BC 3333x

Colloquium on Policy Analysis

Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process, and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes. —J. Russell

Prerequisite: BC 3001 or equivalent and permission of the instructor. Enrollment limited to 18 students.

4 points. Tu 10:00-11:50

III S

*Urban Affairs UAF BC 3535y

Colloquium on Urban Administration and Management

Processes of administration and management in urban organizations. Executive leadership, decision-making, bureaucracy, budgeting and personnel.

—J.P. Thompson

Prerequisite: BC 3001 or V3313 or the equivalent.

Enrollment limited to 20 students.

4 points. M 2:10-4:00

III S

Urban Affairs UAF BC 3537y
Workshop in Urban Administration and Management

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week. —J.P. Thompson
Corequisite: Urban Affairs BC 3535.
2 points. Biweekly meeting TBA.

***POS G 8232x**
Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley
Prerequisite: BC 3001 or V 3313 and permission of the instructor.
4 points. Th 2:10-4:00

III S

COMPARATIVE POLITICS AND FOREIGN GOVERNMENT

Lecture Courses

POS BC 3422y
Social Democracy in Western Europe

Prerequisite: V3501 or the equivalent.
3 points. Not offered in 1993-94.

POS W 3531y
The Politics of East Central Europe

A comparative study of the politics of the countries of East Central Europe with emphasis on contemporary changes.
3 points. Hours TBA

POS W 3502x
Political Change in the Third World

Politics of development in the poorer countries of the world, with a particular emphasis on Africa and Latin America. Topics include colonialism and dependency, theories of economic and political modernization, the nation and the state, racial/ethnic and class relations, reform, and revolution.
 —P.K. Ohdenburg
3 points. Tu Th 6:10-7:25

POS W 4420x
Politics in Advanced Capitalist Society: West Europe and the US

Alternate approaches (including Marxist, post-Marxist, and corporatist) to understanding the political economy of advanced capitalism in West Europe and the United States. The relationship of liberal democracy and capitalist production. Historical and cross-national variations in ruling coalitions, state policies, and political conflicts. The crisis of the Keynesian welfare state and post-Keynesian developments. —M. Kesselman
Mandatory discussion section.
3 points. Th 4:10-6:00

POS W 4445x
Politics in the Middle East and North Africa

Comparative analysis of regime types, political development and political decay, nation state building and the role of political groups in the Middle East and North Africa. —D. Waldner
3 points. Tu Th 10:35-11:50

POS W 4461y
Latin American Politics

Political structures, conflict, and change in the region, including discussion of the politics in selected countries, patterns of regime change and the involvement of the United States. —A. Stepan
3 points. Tu 2:10-4:00

POS W 4471x
Chinese Politics

Analysis of the Chinese political system, including institutions, political conflict, state-society relations, and policy implementation, with focus on the Maoist revolutionary era and reformist political processes since 1978. —T. Bernstein
3 points. Tu 4:10-6:00, Th 5:10-6:00

POS W 4472y
Japanese Politics

A survey of contemporary Japanese politics, focusing on political leadership, party organization and behavior interest group structures, patterns of national-local linkage, and clientelism. Emphasis on relating the Japanese experience to the general literature on these themes. —G. Curtis
3 points. Tu 2:10-4:00
One-hour discussion sections TBA.

POS G 4496y

Contemporary African Politics

Topics include the transition from colonialism to independence, ethnic and class relations, the state, strategies for development, international influences, and case studies of selected countries. —Instructor TBA.

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. M W 11:00-12:15

POS W 4842y

Conflicts and Conflict Resolution in the Middle East

Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the Iran-Iraq war, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined. —N. Weinberger

Prerequisite: V 3501 or V 3601 or permission of the instructor.

3 points. Tu Th 1:10-2:25

II

Colloquia

*POS BC 3055y

Colloquium on Political Violence and Terrorism

Contemporary political violence and terrorism in comparative perspective. Distinctions between guerrilla war and terrorism, and (dis)continuities between historical and evolving forms of political violence and international responses. Case studies include the Middle East, South Africa, Northern Ireland, and Peru; narcoterrorism. —S. Popović

4 points. M 2:10-4:00

II

*POS BC 3220x

Colloquium on Communism and Revolutionary Change

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism. Case studies examined are Russian Revolution of 1917; the Chinese Revolution; and the Maoist Shining Path insurgency in Peru. —S. Popović

Prerequisites: V 3501, BC 3007, or BC 3221, or the equivalent and permission of the instructor required.

4 points. M 2:10-4:00

II S

*POS BC 3221x

Colloquium on Politics and Human Rights in Post-Soviet Systems

Soviet conception of governing authority and human rights; the interaction of government and citizens. —P. Juviler

Prerequisite: V 3501 or BC 3007, or Soviet politics

or history. Admission by application only.

4 points. Th 2:10-4:00

I S

*POS BC 3414y

Colloquium on Women and Third World Politics

An exploration of how women and political structures influence one another in Asia, Latin America, the Middle East, and Africa. How do different political systems and political cultures influence women's status and power? What are influences on women's level and mode of participation? What benefits do or do not accrue to them from participation? —L. Calman

Prerequisite: POS V 3501, BC 3007 or W3502.

4 points. Th 2:10-4:00

I S

*POS BC 3424x

Colloquium on Asian Politics

Prerequisite: V3501 or permission of the instructor.

Enrollment limited to 20 students.

4 points. Not offered in 1993-94.

II S

INTERNATIONAL RELATIONS AND FOREIGN POLICY

Lecture Courses

POS BC 3012y

The United Nations in International Politics

3 points. Not offered in 1993-94.

POS W 3614x

The Causes of War

Prerequisite: POS V 3601 or the instructor's permission.

3 points. Not offered in 1993-94.

POS W 3630x

The Politics of International Economic Relations

Introduction to the political and historical dimensions of the international economy.

Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence. —D. Spiro

3 points. Tu Th 2:40-3:55

POS W 4804y

The Making of American Foreign Policy

Constitutional, organizational, and partisan dynamics of the foreign policy process, with special attention to legislative-executive and civil-military relations, intelligence, activities, and performance in crises. —R. Betts

Prerequisite: POS V 3601 or permission of the instructor.

3 points. M W 11:00-12:15

Colloquia

***POS BC 3118x**

Colloquium on Problems in International Politics

Readings, discussions, and presentations on selected problems in international politics. Topic for 1993-94: the causes of international conflicts—theories and case studies. —M. Malin
Prerequisite: Course V 3601 and permission of the instructor.

4 points. W 2:10-4:00

I S

***POS BC 3410y**

Colloquium on Human Rights in a Diverse World

Exploration of the nature of human rights and questions of their validity and relevance, protection and redefinition, in this world of cultural diversity and diversity of national interests.—P. Juviler
Open to juniors and seniors of Barnard and Columbia by application November-December 1993, through Barnard Political Science office, Lehman Hall.

4 points. Th 2:10-4:00

I S

POLITICAL THEORY

Lecture Courses

POS W 3411x

Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State

3 points. Not offered in 1993-1994.

POS W 3412y

Modern Political Thought

Political philosophy from Hobbes to Mill.
—R. Amdur

3 points. Tu Th 2:40-3:55

Colloquia

***POS BC 3416y**

Colloquium on Personality and Politics

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. —F. Davidson
Permission of the instructor required. Enrollment limited to 16 students.

4 points. Th 4:10-6:00

S

***POS BC 3423x**

Colloquium on Nonviolence

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India,

1906-1947. Comparison of this example with other instances of nonviolent action in 20th century America and Europe. —D. Dalton
Prerequisites: BC 3013x, BC 3013y, and BC 3007x.
4 points. W 2:10-4:00

I S

***POS BC 3433y**

Colloquium on Concepts of Democratic Political Theory

Reading the great books of political theory from Plato to the Federalist Papers to examine concepts such as power, elitism, democracy, tyranny, liberty, justice, the right to revolt, and force vs. morality. Throughout the course, these concepts will be related to the founding and operation of the American constitutional democracy. —D. Caraley
Permission of the instructor required

4 points. Tu 2:10-4:00

III S

***POS BC 3440x**

Colloquium on Women in Western Political Thought

Permission of the instructor required.

4 points. Not offered in 1993-94.

I S

***POS W 3833x**

Colloquium on Political Ideas

Selected topics in contemporary political philosophy.
—R. Amdur

Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.

4 points. Th 4:10-6:00

COURSES IN QUANTITATIVE METHODS

POS W 4910x

Principles of Quantitative Political Research

Introduction to the use of quantitative techniques in political science and public policy. Topics include descriptive statistics and principles of statistical inference and probability through analysis of variance and ordinary least-squares regression. Computer applications are emphasized. —R. Shapiro
3 points. Tu Th 10:35-11:50

POS G 4911y

Analysis of Political Data

3 points. Not offered in 1993-94.

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring preregistration students must apply for the section desired.

POS V 3711x-3712y

Research Seminar in American Politics

Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics. —Staff
4 points.

- x: Sec. 1 Tu 4:10-6:00 —D. Caraley, J.P. Thompson
Sec. 2 Th 4:10-6:00 —M. Delli Carpini
Sec. 3 W 4:10-6:00 —E. Fuchs
y: Sec. 1 Tu 4:10-6:00 —D. Caraley, J.P. Thompson
Sec. 2 Th 4:10-6:00 —M. Delli Carpini
Sec. 3 W 4:10-6:00 —E. Fuchs

POS BC 3761x-3762y

Research Seminar

Discussion and conferences on the researching and writing of the senior essay. — Staff
4 points.

- Sec. 1 Th 4:10-6:00 —P. Juviler
Sec. 2 Tu 4:10-6:00 —D. Dalton
Sec. 3 W 4:10-6:00 —M. Malin
Sec. 4 W 4:10-6:00 —N. Weinberger
Sec. 5 Tu 4:10-6:00 —S. Popović

POS V 3701x-3702y

Research Seminar in American Politics

4 points.

- x: Sec. 1 M 2:10-4:00 —A. Westin
Sec. 2 Tu 2:10-4:00 —TBA
Sec. 3 Th 2:10-4:00 —C. Cameron
y: Sec. 1 M 2:10-4:00 —C. Long
Sec. 2 W 2:10-4:00 —A. Gondek
Sec. 3 W 4:10-6:00 —C. Cameron

Political Science-Sociology PSS V 3994x-3995y New York Area

Undergraduate Research Program

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. *Enrollment limited to 10-15 students, selected by application only. Participation is for two terms. Does not satisfy seminar requirement for Barnard POS majors.*
4 points. Tu 2:10-4:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International Affairs.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs bulletin available in 412 Lewisohn Hall.

Political Science H 3250y

French Foreign Policy since World War II

The Fourth and Fifth Republics. Focus on a number of French preoccupations in the sphere of international relations, evolution of certain French attitudes and concerns, and contemporary French foreign policy. Topics include Vichy, the Communist Party, Jena Monney, the Indo-Chinese war, the Algerian War, de Gaulle's foreign policy, the French and Europe, de Gaulle and the Third World, Pompidou, Franco-American relations, d'Estaing, the political defense of France, and foreign relations in Socialist France. —Instructor TBA.
3 points.

History-Political Science H 3240x, y

The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past two hundred years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery
3 points.

PSYCHOLOGY

415 Milbank Hall

854-2069

Professors: Peter Balsam, Lila Ghent Braine, Thomas Perera (Visiting), Robert Remez, Rae Silver (Helene L. and Mark N. Kaplan Professor)

Associate Professors: Lawrence Aber, Barbara S. Schmitter, Christina L. Williams (Chair)

Adjunct Associate Professors: Wendy McKenna, Corliss Parker, Carolyn A. Ristau

Assistant Professors: Larry B. Heuer¹, Gail Musen, Steven Stroessner, John Vitkus

Adjunct Assistant Professors: Howard Andrews, Maria Crisafi, Sandra F. Stingle

Adjunct Instructors: Johan Julin, Johanna Nordlie, Stella Kaplow

¹Absent on leave Spring term.

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babbling of infants to creative intellectual behavior, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many points of psychological evidence and technique through lecture, laboratory, field courses, and other offerings.

Opportunities are available for supervised research, teaching, and field experience. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services also provide first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and those which establish a broad intellectual foundation.

Science requirement: Students desiring to fulfill the science requirement through psychology are encouraged to take their lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses will be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major*.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$20 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 91.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Students who have passed the Advanced Placement exam with a score of 4 or 5 are exempt from BC 1001, and receive 3 points of AP credit.

PSYCHOLOGY

Students must take:

Psychology BC 1001

Introduction to Psychology

(prerequisite for further psychology courses)

Psychology BC 1101

Statistics (preferably in the sophomore year)

Students must take one course from each group, of which two must be laboratory courses:

Group A

Psychology BC 1105 or 1107

Psychology of Learning

Psychology BC 1130 or 1132

Human Learning and Memory

Group B

Psychology BC 1108 or 1110

Perception

Psychology BC 1117 or 1119

Physiological Psychology

Group C

Psychology BC 1123 or 1125

Psychology of Personality

Psychology BC 1136 or 1138

Social Psychology

Psychology BC 1127 or 1129

Developmental Psychology

Psychology BC 1156 or 1158

Psychological Measurement

Three additional elective courses are required. Students may take more than one course in each group.

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: two courses in a science, each accompanied by a three-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy or sociology).

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

These revised requirements for the major are in effect for the class of '95 and following years. Other classes should consult the Barnard Catalogue 1991-92 for a description of the prior requirements. When in doubt the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student may select the appropriate adviser in consultation with the administrative assistant or the chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x,y

Introduction to Psychology

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.) —Staff

This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.

3 points. x: Sec: 1 M W 11:00-12:15 —W. McKenna

Sec: 2 M W 6:10-7:25 —J. Nordlie

Sec: 3 Tu Th 4:10-5:25 —C. Ristau

Sec: 4 Tu Th 10:35-11:50 —L. Heuer

Sec: 5 Tu Th 1:10-2:25 —T. Perera

y: Sec: 1 M W 1:10-2:25 —Staff

Sec: 2 M W 2:40-3:55 —W. McKenna

Sec: 3 Tu Th 10:35-11:50 —P. Stokes

Sec: 4 Tu Th 1:10-2:25 —Staff

Sec: 5 Tu Th 2:40-3:55 —Staff

PSY BC 1099x, y

Science and Scientists

Weekly meetings with researchers to discuss the nature of scientific inquiry in psychology; and intellectual professional and personal issues in the work of scientists. —G. Musen and guest scientists

Enrollment limited to first and second year students.

Prerequisite: BC 1001 or permission of the instructor.

1 point. Tu 4:10-6:00

CORE COURSES

PSY BC 1101x,y

Statistics

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments. —Staff

Prerequisite: BC 1001 or permission of the instructors.

Enrollment limited to 35 students per section.

Preregistration.

4 points. x: Sec: 1 Tu Th 4:10-5:25 —H. Andrews

Rec. W 4:00-6:00

Sec: 2 M W 2:40-3:55 —S. Kaplow

Rec. Tu 10:00-12:00 or 12:00-2:00

y: Sec: 1: Tu Th 2:40-3:55 —P. Balsam

Rec. W 9:00-11:00 or 11:00-1:00

Sec: 2: M W 11:00-12:15 —S. Stroessner

Rec. Tu 9:00-11:00 or 11:00-1:00

PSY BC 1105x

Psychology of Learning

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.

—P. Balsam and assistants.

Prerequisite: BC 1001. Enrollment limited to 60 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W or Th or F 1:00-4:00

Laboratory fee \$20.

PSY BC 1107x

Psychology of Learning

Same as BC 1105, but without the laboratory.

—P. Balsam

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. Tu Th 10:35-11:50

PSY BC 1108x

Perception

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings. —R. Remez and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students.

Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee \$20.

PSY BC 1110x

Perception

Same as BC 1108, but without the laboratory.

—R. Remez

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. M W 11:00-12:15

PSYCHOLOGY

PSY BC 1117y

Physiological Psychology

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory. —C. Williams and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W 2:30-5:30 or Th 1:00-4:00

Laboratory fee \$20

PSY BC 1119y

Physiological Psychology

Same as BC 1117y, but without laboratory.

—C. Williams

Prerequisite: BC 1001. Enrollment limited to 20 students.

3 points. Tu Th 10:35-11:50

PSY BC 1123y

Psychology of Personality

Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory students will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study. —J. Vitkus

Prerequisite: BC 1001. Enrollment limited to 40 students.

4.5 points. Lecture: Tu Th 1:10-2:25

Laboratory: M or Th 9:00-12:00. Fee \$20.

PSY BC 1125y

Psychology of Personality

Same as PSY BC 1123y but without laboratory.

—J. Vitkus

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 1:10-2:25

PSY BC 1127x,y

Developmental Psychology

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. —x: L. Aber and assistants
y: —L. Braine and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 44 students. Preregistration.

4.5 points. Lecture M W 1:10-2:25

Laboratory Tu 2:30-5:30, W 9:00-12:00

Laboratory fee \$20.

PSY BC 1129x,y

Developmental Psychology

Same as BC 1127, but without laboratory.

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 20 students.

x —L. Aber, y —L. Braine

3 points. M W 1:10-2:25

PSY BC 1130y

Human Learning and Memory

Survey of contemporary theories of human memory. Topics will include sensory, short term and long term memory, levels of processing, organization and encoding specificity. Special topics include eyewitness testimony, amnesia, implicit memory, and autobiographical memory. The laboratory consists of experiments related to these topics. —G. Musen and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee \$20.

PSY BC 1132y

Human Learning and Memory

Same as BC 1130 but without laboratory.

—G. Musen

Prerequisite: BC 1001.

3 points. M W 11:00-12:15

PSY BC 1136x

Social Psychology

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.

—S. Stroessner and assistants

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 50 students. Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory Tu or Th 9:00-12:00

Laboratory fee \$20.

PSY BC 1138x

Social Psychology

Same as BC 1136, but without laboratory.

—S. Stroessner

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 25 students.

3 points. M W 11:00-12:15

PSY BC 1156x

Psychological Measurement

Prerequisite: BC 1001. Preregistration.

4.5 points. Not offered in 1993-94.

PSY BC 1158x

Psychological Measurement

Prerequisite: BC 1001. Enrollment limited to 20 students. 3 points. Not offered in 1993-94.

MIDDLE LEVEL COURSES

PSY BC 2134x

Educational Psychology

Prerequisite: BC 1001 or permission of the instructor. 3 points. Not offered in 1993-94.

PSY BC 2141x,y

Abnormal Psychology

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia, eating disorders, and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy. —x: J. Vitkus, —y: TBA
Prerequisite: BC 1001 or permission of the instructor. 3 points. Tu Th 10:35-11:50.

PSY BC 2151x

Organizational Psychology

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decision-making, and communications. —J. Julin
Prerequisite: BC 1001. Enrollment limited to 45 students. 3 points. M W 6:10-7:25

PSY BC 2154x

Hormones and Reproductive Behavior

Prerequisite: BC 1001 or Biology BC 1101-BC 1102. Enrollment limited to 45 students. 3 points. Not offered in 1993-94.

PSY BC 2158x

Human Motivation

Prerequisite: BC 1001. Alternate years. 3 points. Not offered in 1993-94.

PSY BC 2160x

Cognitive Psychology

Prerequisite: BC 1001. Enrollment limited to 20 students. Alternate years. 3 points. Not offered in 1993-94.

PSY BC 2370y

Psychological Analysis of Racism

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept,

mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. —J. Fleming
Prerequisite: BC 1001 and permission of the instructor. Enrollment limited to 20 students. Alternate years. 4 points. Hours TBA. I

PSY BC 2371x

Psychology and Women

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of special female experiences (e.g. menstruation, childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women. —L. Braine
Prerequisite: BC 1001. Enrollment limited to 20 students. 4 points. Tu 2:10-4:00 I

UPPER LEVEL COURSES

PSY BC 3152y

Psychological Aspects of Human Sexuality

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality. —W. McKenna
Prerequisite: BC 1001 and two other psychology courses or permission of the instructor. Enrollment limited to 30 students. Preference given to seniors. Preregistration. 3 points. M W 1:10-2:25

PSY BC 3161y

Introduction to the Psychotherapeutic Process

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment choice or treatment psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change. —C. Parker
Prerequisites: BC 1001, and any two of the following courses: Personality, Abnormal Psychology, Developmental Psychology, Human Motivation or permission of the instructor. 3 points. M W 11:00-12:15

PSYCHOLOGY

PSY BC 3164y

Perception and Language

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. Enrollment limited to 20 students.

Alternate years.

3 points. Not offered in 1993-94.

PSY BC 3166x

Social Conflict

This seminar will survey the literature on the development of social conflict, the functions of social conflict, the motivations and cognitions of individuals in conflict, and the procedures available for resolving conflict. Particular emphasis will be placed on the psychology of fairness and its implications for conflict resolution. —L. Heuer
Prerequisite: BC 1001 and one additional psychology course, or permission of the instructor. Enrollment limited to 20 students.

4 points. Th 4:10-6:00

PSY BC 3167y

History and Systems of Psychology

Open to juniors and seniors who have had BC 1001 and two other courses in psychology, or permission of the instructor. *Alternate years.*

3 points. Not offered in 1993-94.

PSY BC 3169x

Developmental Psychobiology

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, pre-natal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning). —C. Williams

Prerequisites: BC 1001 and two other course in biology or psychology.

3 points. M W 11:00-12:15

PSY BC 3372y

Topics in Developmental Psychology

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —M. Crisafi

Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 20 students.

4 points. Hours TBA.

PSY BC 3374y

Theories of Learning

Prerequisite: BC 1105 and junior or senior standing.

Enrollment limited to 15 students. *Alternate years.*

4 points. Not offered in 1993-94.

PSY BC 3375y

Organization of Movement

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabilities; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts. —R. Remez

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students.

4 points. Tu 6:00-8:00

PSY BC 3376y

Infant Development

Prerequisites: BC 1001 and BC 1127 or BC 1129.

Enrollment limited to 20 students.

4 points. Not offered in 1993-94.

PSY BC 3378x

Females and Males:

A Psychobiological Perspective

Prerequisites: BC 1001 and two other psychology courses.

4 points. Not offered in 1993-94.

PSY BC 3379x

Psychology of Stereotyping and Prejudice

Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

4 points. Not offered in 1993-94.

PSY BC 3380x

Fundamental of Neuropsychology

Exposition of research and theory in cognitive neuroscience through discussion of neuropsychological syndromes, including: aphasia, amnesia, dyslexia, Alzheimer's disease, prosopagnosia, and cognitive components of Parkinson's disease, Williams' syndrome. —G. Musen

Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

4 points. M 2:10-4:00

PSY W 4107y

Applications of Experimental Psychology

Prerequisite: Learning course and permission of the instructor. Enrollment limited to 15 students.

Offered every three years.

3 points. Not offered in 1993-94.

PSY W 4132y

Production and Perception of Language

Prerequisites: Psychology W 1501, W 3180, BC 3164 or permission of the instructor.

4 points. Not offered in 1993-94.

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, 3466y

Field Work and Research Seminar: Barnard Toddler Center

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice. —L. Aber

Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration. Enrollment limited to 12 students.

4 points. Tu 12:30-2:30

PSY BC 3473y

Field Work Seminar in Psychological Services and Counseling

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials. —S. Stingle

Prerequisites: 3 psychology courses and permission of the instructor required during program planning the previous fall. Enrollment limited to 12 students; seniors given priority.

4 points. Tu 10:00-12:00 plus supervision TBA.

PSY BC 3591x, 3592y

Senior Research Seminar

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. —R. Silver

Open to senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: BC 1101, a minimum of five other psychology courses must be completed, and permission of the instructor.

4 points. Tu 4:10-6:00

PSY BC 3599x, 3599y

Individual Projects

Research projects planned in consultation with members of the department. —Staff

Open to majors on written permission of the department member who will supervise the project.

3 or 4 points. Hours TBA.

QUANTITATIVE REASONING

2 Lehman Hall

854-3790/854-3454

This program is supervised by the Quantitative Reasoning Committee.

Professor of Economics: Duncan Foley (Director)

Associate Professor of Mathematics: David Bayer

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

QUANTITATIVE REASONING REQUIREMENT

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard before registering for any of the courses listed on page 34 that satisfy the *Quantitative Reasoning Requirement*. *Basic Math Skills* topics are arithmetic, (including fractions, decimals and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed on page 34 in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed on page 34 or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

COURSES OF INSTRUCTION

Quantitative Reasoning courses assume that students know the basic math skills topics. QR courses introduce students to the use of computers, but assume no previous computer experience.

QUR BC 1001x, y **Basic Math Skills**

Arithmetic, (including fractions, decimals and percentages), exponents and logarithms, equations and graphs, and word problems. Required for students who score below 11 out of 20 on the Basic Math Skills exam. Open to other students only with permission of the instructor. A student who wishes to select the P/D/F grading option or drop this course must do so by the fifth week of the section in which she is enrolled. —A. Robb
1 point.

x: Sec. 1 Tu Th 9:10-10:25, Sept. 7 - Oct. 21

Sec. 2 Tu Th 6:10-7:25, Oct. 12 - Nov. 30

y: Sec. 1 Tu Th 9:10-10:25, Jan. 18 - Mar. 3

Sec. 2 Tu Th 6:10-7:25, Mar. 1 - Apr. 21

QUR BC 1100y **Introduction to Quantitative Reasoning**

The theory and method of quantitative inference. Probability, conditional probability, Bayes' Theorem, the incorporation of new information in judgments, statistical analysis of Bernoulli trials. Applications to the use of evidence in forming opinions and making decisions in law, history, politics, economics, games, psychology and interpersonal relations. —D. Foley, J. Lad
3 points. M W F 2:40-3:55

QUR BC 1110x **Words, Codes, and Cryptograms**

An introduction to the mathematics of the computer age by using computers to manipulate textual information. The first unit develops specific programming examples necessary to analyze textual input and output in PASCAL. The second unit focuses on basic concepts and techniques of cryptography, enabling students to design, implement, and analyze secret communications systems.

—J. Follansbee, J. Lad

RELIGION

219 Milbank Hall

854-2597

Professors: John Stratton Hawley (Chair), Alan Segal

Associate Professor: Randall Balmer

Assistant Professors: Kate Cooper, Judith Weisenfeld, Angela Zito

Visiting Assistant Professor: Celia Deutsch

Instructor: Barbara Gombach

Other officers of the University offering courses listed below:

Professors: Peter Awn, Gillian Lindt, Wayne L. Proudfoot², Robert Somerville², Robert A.F. Thurman, David Weiss-Halivni

Assistant Professors: Ryuichi Abe¹, Matthew Kapstein, Gurinder Singh Mann, Susan Shapiro

¹Absent on leave Autumn term.

²Absent on leave Spring term.

Approaches to the study of religion are as diverse as the world's religious traditions themselves. The student of religion encounters men and women—and our courses give explicit attention to both genders—as they explore the very boundaries of their perceptions of the real. The challenge of this encounter inspires our involvement in the academic study of religion, even as it leads us to examine and question the boundaries of our world views.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by the Department of Religion of Barnard College and Columbia College offers a unique context and extensive resources for this inter-disciplinary study. The areas of expertise of the religion faculty (philology and the interpretation of texts, philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion), provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asia, East Asia, etc.—explore in depth the linguistic, literary, and sociocultural milieus of particular Eastern or Western religious traditions. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit and other Indic languages, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located near the campus. Students are encouraged to take full advantage of these and other opportunities available through the University.

All courses, except those limited to majors, satisfy the College's distribution requirements in the Humanities.

DEGREE REQUIREMENTS

FOR THE MAJOR

Program of study: To be planned with the departmental adviser, taking into account the educational aims of the student. A religion major is expected to acquire knowledge of at least three sorts: i) an acquaintance with the linguistic, social-scientific, historical, and philosophical theories and methods that concern the study of religion; ii) an in-depth knowledge of one religious tradition; and iii) a critical, comparative understanding of the broad range of the world's religious phenomena, requiring some familiarity with all of the major world religions.

RELIGION

Courses: for the major ten courses are required:

- i) Religion V 1001, Introduction to the Study of Religion (In exceptional cases Religion V 1101 or Religion V 1102, Introduction to the Study of Western Religion and Introduction to the Study of Eastern Religion, may be substituted at the discretion of the student's departmental advisor.)
- ii) Two survey courses in the major religious traditions, one Western, one non-Western—V 2600 Hinduism, V 2607 Buddhism: Indo-Tibetan, V 2608 Buddhism: East Asian, V 2610 Christianity, V 2620 Judaism, V 2630 Islam, and V 2640 Chinese Religious Traditions.
- iii) Three intermediate courses in specific religious traditions, with two chosen in the tradition of main concentration; the third course must be from an Eastern tradition if the concentration is in a Western tradition, or from a Western tradition in the opposite case.
- iv) The Junior Major's Colloquium, Religion V 3801,
- v) Any advanced departmental seminar or colloquium.
- vi) The Senior Major's Colloquium, V 3800, Critical Issues in the Modern Study of Religion.
- vii) A Senior Essay prepared in consultation with a member of the department; the essay may be written in connection with Religion V 3901-3902 Guided Reading and Research, and is taken into consideration when making recommendations to the Faculty Committee on Honors.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition in addition to fulfilling the College language requirement.

For a Minor in Religion

Program of Study: to be planned with the departmental representative, taking into account the educational aims of the student.

Courses: For the minor five courses are required, including:

- i) Religion V 1001, Introduction to the Study of Religion; Religion V 1101, Introduction to the Study of Western Religion, or Religion V 1102, Introduction to the Study of Eastern Religion.
- ii) Two survey courses in the major religious traditions, with a Western/non-Western distribution.
- iii) One departmental seminar or colloquium.

Note: A grade of C- or above is required for credit of major or minor requirements.

COURSES OF INSTRUCTION

For courses offered by other departments and the Graduate School of Arts and Sciences that bear upon the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the permission of the instructor.

INTRODUCTORY COURSES

REL V 1001x

Introduction to the Study of Religion

Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. —J. Weisenfeld, G. Mann
3 points. M W 10:35-11:50 I H

REL V 1101x

Introduction to the Study of Western Religion

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West. —C. Deutsch
3 points. Tu Th 2:40-3:55 I H

REL V 1102y**Introduction to the Study of Eastern Religion**

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East. —J. Hawley, A. Zito

3 points. M W 2:40-3:55 I H

THE TRADITIONS**REL V 2600x****Hinduism**

Central themes in Hinduism, in their relation to Indian culture. Readings include original sources in translation. Visual material emphasized.

—J. Hawley

3 points. Tu Th 2:40-3:55 II H

REL V 2607x**Buddhism: Indo-Tibetan**

A historical introduction to Buddhist thought, scriptures, practices and institutions. Attention given to Theravada, Mahayana and Tantric Buddhism in India and Tibet. —R. Thurman

3 points. Tu Th 4:10-5:25 II H

REL V 2608y**Buddhism: East Asian**

An introductory survey that studies East Asian Buddhism as an integral, living religious tradition. Emphasis is placed on the reading of original treatises in translation. Historical events are discussed in terms of their relevance to contemporary problems confronted by Buddhism. —R. Abe

3 points. M W 1:10-2:25 III H

REL V 2610x**Christianity**

Survey of the history of Christianity and of the social and ethical tensions which have informed its development. —K. Cooper

3 points. M W 1:10-2:25 III H

REL V 2620x**Judaism**

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations. —S. Shapiro

3 points. M W 4:10-5:25 II H

REL V 2640x**Chinese Religious Traditions**

The Chinese word for "religion" is "teaching". We explore what Chinese people taught themselves about the person, society and the natural world. Covers classic texts of Taoist and Confucian canon and their synthesis; Mahayana Buddhism, folk religion and its relation to the state, and the modern cult of Maoism. —A. Zito

3 points. M W 2:40-3:55 II H

Islamic-Religion ISR V 2630y**Islam**

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings. —P. Awn

3 points. Tu Th 4:10-5:25 II H

INTERMEDIATE COURSES**EASTERN RELIGIONS****REL V 3000y****Buddhist Ethics**

3 points. Not offered in 1993-94. II H

REL V 3603y**Taoism**

Historical introduction to Chinese Taoism; development of thought and literature (i.e., the Tao Te Ching and the Chuang Tzu); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice. —A. Zito

3 points. Tu Th 4:10-5:25 II H

REL V 3605y**Sikhism**

Focusing on the religious beliefs, literature, and history of the Sikhs, the course will trace the development of Sikhism from its inception as a part of a large devotional (bhakti) movement to its modern manifestation as a powerful religious minority in contemporary India. —G. Mann

3 points. M W 1:10-2:25 II H

REL V 3613x**Japanese Religious Tradition**

3 points. Not offered in 1993-94. II H

REL V 2601y**Philosophies of India**

Survey of the origins, doctrines and arguments of the main Indian philosophical systems: Samkhya, Yoga, Nyaya, Vaishesika, Mimamsa and Vedanta. Indian logic, linguistic philosophy and aesthetics are emphasized. —M. Kapstein

3 points. Hours TBA. II H

RELIGION

WESTERN RELIGIONS

Judaism

REL V 3201x

Introduction to the Hebrew Bible

Introduction to the literature of ancient Israel against the background of the ancient Near East.

—A. Segal

3 points. M W 11:00-12:15 II H

REL V 3210y

Judaism During the Time of Jesus

An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West. —A. Segal

3 points. M W 11:00-12:15 II H

REL V 3214y

Introduction to Talmudic and Geonic Literature

3 points. Not offered in 1993-94. III H

REL V 3310y

Peshat and Derash in the Jewish Tradition

The history of rabbinic interpretation throughout the ages, distinguishing between Biblical exegesis and Talmudic exegesis with some reference to both Dead Sea Scrolls and early Christian Biblical expositions. —D. Weiss-Halivni

3 points. M W 2:40-3:55 III H

REL V 3330x

The Beginnings of Jewish Mysticism

3 points. Not offered in 1993-94. III H

REL V 3315y

Law and Lore (Halakha and Aggadah) in the Jewish Tradition

3 points. Not offered in 1993-94. III H

REL V 3338x

Jewish Ethics

A critical examination of both philosophical questions concerning the nature and basis of Jewish ethics and normative questions concerning the saving and taking of human life. Jewish materials will be compared with parallel discussions by contemporary ethicists. —TBA

3 points. Hours TBA. III H

REL V 3349x

Jewish Family Law

An examination of Jewish marriage and inheritance law. A survey of legal obligations an individual owes, and the privileges she/he receives, from being a member of a family. —D. Weiss-Halivni

3 points. M W 2:40-3:55 III H

REL 3355x

Development of the Jewish Holidays

3 points. Not offered in 1993-94. III H

REL V 3360x

Jewish Liturgy

3 points. Not offered in 1993-94. III H

REL V 3407y

Mysticism

An examination of primary texts from various traditions in light of contemporary theories of mysticism, addressing issues such as gender and authority. —C. Deutsch

3 points. Tu Th 2:40-3:55 I H

Christianity

REL V 3202y

Introduction to the New Testament

Critical study of the formation of the New Testament canon, and the communities which produced it. —K. Cooper

3 points. M W 1:10-2:25 III H

REL V 3240y

Graeco-Roman Religion

3 points. Not offered in 1993-94. III H

REL V 3402y

Early Christianity

3 points. Not offered in 1993-94. III H

REL V 3412x

Gnosticism

Investigation of recently discovered gnostic texts, and discussion of their historical importance.

—A. Segal

3 points. Tu Th 10:35-11:50 II H

REL V 3530y

The History of the Papacy

3 points. Not offered in 1993-94. III H

REL V 3450

The Reformation

Historical and theological examination of Reformed churches (France, Germany, Switzerland, England) and Reformed writing (Foxe, Bunyan, Luther, Calvin, Beza/Marie Dentières). Emphasis on how religion is conveyed through literature. —C. Coats

3 points. M W 2:40-3:55 I H

Islam

ISR V 3635x

History of Sufism

3 points. Not offered in 1993-94. II H

ISR W 4300x
Islam in India

3 points. Not offered in 1993-94. II H

RELIGION, CULTURE AND SOCIETY

REL V 3755x
African-American Religion

Survey of the history of religion among Americans of African descent from slavery to the present.

Major topics to be covered include: the African background and the transmission of African cultures, religion under slavery, independent black churches, religion and race relations and modern theological movements. —J. Weisenfeld

3 points. Tu Th 2:40-3:55 III H

REL V 3501y
18th and 19th Century Religious Thought

3 points. Not offered in 1993-94. H

REL V 3502x, 3503y
The History of Religion in America

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War. V 3503y: from the Civil War to the present. —R. Balmer

3 points. Tu Th 10:35-11:50 I H

Religion-Sociology RSC V 3508y
Religious Cults in Contemporary American Society

A socio-historical examination of the "new" religious movements. Cult theology and world view, patterns of proselytization and conversion, organizational structure and leadership, disaffection and deprogramming. —G. Lindt

3 points. Tu th 4:10-5:25 III S

REL V 3513x
Philosophy of Religion

3 points. Not offered in 1993-94. H

REL V 3700y
Women and Religion

3 points. Not offered in 1993-94. I H

HIR V 3750y
Introduction to African-American History and Culture

3 points. Not offered in 1993-94. III H

Religion-Sociology RSC V 3720y
Sociology of Religion

3 points. Not offered in 1993-94. I H

REL V 3780y
Religion in Racially Stratified Societies

Examination of the influence of racial stratification on the religious experience of blacks and whites in the United States and South Africa. Topics include theological justifications of slavery and apartheid and black resistance to racial domination through religious means. —J. Weisenfeld

3 points. M W 10:35-11:50 H

REL V 3770y
Perspectives on Religious Experience: East and West

Perspectives on varieties of religious experience as seen through the western psychology of Freud, Jung, William James, and others, and Eastern psychological systems represented in the Yoga Sutras, the Tibetan Book of the Dead, and Zen Buddhism. —E. Huberman

3 points. Tu Th 10:35-11:50 I H

SEMINARS AND READING COURSES

Note: Students must obtain permission of the instructor.

REL V 3801y
Juniors' Colloquium

An introduction to the comparative study of religion focusing on dominant approaches to the conceptualization, interpretation, and explanation of religious phenomena and on key issues relating to the methodologies appropriate to such investigations. *Required of Religious majors in their Junior year.* —G. Lindt

3 points. W 9:00-10:50 H

REL V 3800x
Majors' Colloquium: Comparative Mysticism

Critical issues in the modern study of religion. Topic: 13th and 14th century mystical texts from the Christian and Muslim traditions. —P. Awn
Required for all senior majors.

4 points. Sec. 1 W 4:10-6:00
 Sec. 2 W 6:10-8:00 H

REL V 3803x
Seminars in Religious Thought

4 points.

Sec. 30 Life After Death

A study of Western ideas of afterlife, concentrating on ancient literature. Readings will include Gilgamesh and other ancient Near Eastern literature, the Bible, *The Odyssey*, Plato's *Phaedo*, Apuleius, *The Golden Ass*. —A. Segal.
 W 2:10-4:00

Sec. 34 Tibetan Philosophy

—R. Thurman
W 4:10-6:00

38. Issues of Gender in Ancient and Medieval Christianity

An exploration of the function of gender in the construction of religious identity across Christianity's formative centuries. Consideration of the different function for male and female religious identity of factors such as the body and its appetites, power and renunciation, authority and inspiration. —K. Cooper

Tu 4:10-6:00 III H

45. Monotheism East and West

—G. Mann

Tu 9:00-10:50 H

REL V 3804y

Seminars in Religious Thought

4 points.

36. Religion and American Political Culture

An examination of religious themes, symbols, and rhetoric in American public life. —R. Balmer
Tu 2:10-4:00 III H

51. Interpreting Asian Philosophies

The major Asian philosophical traditions challenge and call into question the prospects for cross-cultural understanding. These prospects will be considered here with reference to the writings of leading contemporary interpreters of Indian and Chinese thought. —M. Kapstein
Hours TBA. II H

52. Body, Gender and Belief in China

This course provides an extended and historical exploration of the Chinese construction of basic categories like gender, body, family and belief. We examine the image of family and the position of women in the Classics; factor in ritualist and Taoist notions of the body; discuss changes in the ideology of filiality over time, combine analysis of secondary monographs with workshops on primary sources. —A. Zito

Th 11:00-12:50 II H

53. Religion and Magic in Late Antiquity

An examination of the boundary Graeco-Roman cultures drew between religious and magical interactions with the supernatural. We will read both ancient sources (descriptions—both positive and negative—of magical practice; magical spells and recipes) and modern secondary literature (including anthropological approaches).

—K. Cooper

Tu 4:10-6:00 III H

37. Black Women's Religious Experiences

An examination of the religious experiences of black women through case studies of women in Africa, the Caribbean, Latin America and the United States. Particular attention will be paid to the experiences of African-American women in both institutional and non-institutional arenas.

—J. Weisenfeld

W 2:10-4:00 I H

41. Women in Indian Culture: Foundations of Hindu and Buddhist Views

Selections from major texts of the ancient Hindu and Buddhist traditions in India to explore the most influential roles and representations of women from ancient through medieval times in India. Included are verses of early Buddhist nuns, Jakata tales, the Indian epics, religious poetry, and Puranic mythology. —B. Gombach

Tu 11:00-12:50 II H

Middle East-Religion MDR V 3030y

Poetics of the Sacred: a Cross-Cultural Investigation into the Nature of Mysticism and Poetic Language

An examination of the work of mystic-poets from both Asian and Western traditions; focusing on the paradigm of vision and silence, the effort to express the ineffable. Readings include Upanishads, Rumi, Han Shan, John of the Cross, Blake Eliot, Gary Snyder, and critical works on mysticism and poetic language. —E. Huberman

3 points. W 11:00-12:15 I H

WMS V 3505y

Women, Islam and Nationalism in the Middle East

—A. Najmabadi

3 points. M W 11:00-12:15 I H

History-Religion HIR V 3820y

Religion and Society in Modern India

4 points. Not offered in 1993-94. II H

REL V 3901x, REL V 3902y

Guided Reading and Research

A program of study designed to give majors an opportunity to pursue independently a subject of their choosing. A written essay is required. —Staff
3 or 4 points. If one elects this rubric in connection with the preparation of a senior essay, a maximum of 4 points are allowed in of an academic year, normally with no more than 3 falling in a single term. Otherwise, the course is confined to a semester's length and evaluated at 3 points. Consultation periods to be arranged with adviser. H

RUSSIAN

226 Milbank Hall

854-5417

Professors: Richard F. Gustafson (Chair), Marina Ledkovsky

Assistant Professor: Catharine Nepomnyashchy

Associate: Mara Kashper

Other officers of the University offering courses in Russian:

Professors: Robert L. Belknap, Boris Gasparov, Robert A. Maguire, Harold Segel

Associate Professors: Frank Miller, Irina Reyfman

Assistant Professor: Cathy Popkin

Lecturers: Alla Arsenian, V. Lebedev

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: all students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Ledkovsky as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 1220	<i>Nineteenth-Century Russian Literature</i>
Russian V 1221	<i>Twentieth-Century Russian Literature</i>

Usually taken in the third year:

Russian V 3331-V 3332	<i>Advanced Course</i>
Russian V 3333-V 3334	<i>Introduction to Russian Literature</i>

Usually taken in the fourth year:

Russian V 3443-V 3444	<i>Fourth-Year Course</i>
Russian V 3595	<i>Seminar</i>

Two electives in literature.

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can usually be arranged, and study in Russia is possible as part of the major.

RUSSIAN

REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

LANGUAGE COURSES

RUS V 1101x-RUS V 1102y

Elementary Course

Grammar, reading, composition, and conversation.
—Instructors TBA.

Required: Course V1501- V1502. Homework includes listening to tapes available in the language laboratory. No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class. Department permission is required.

4 points. Sec. 1 M Tu W Th F 9:00

Sec. 2 M Tu W Th F 10:00

Sec. 3 M Tu W Th F 11:00

Sec. 4 M Tu W Th F 12:00

RUS V 1101y

Elementary Course

Equivalent to V 1101x, but given in Spring Term. —Instructor TBA.

4 points. M Tu W Th F 10:00

RUS V 1102x

Elementary Course

Equivalent to V 1102y, but given in Autumn Term. —Instructor TBA.

Prerequisite: V 1101 or the equivalent.

4 points. M Tu W Th F 10:00

RUS V 1501x-RUS V 1502y

Elementary Grammar Lecture

Required weekly grammar lecture for Course V1101-V1102.

Th 12:00-12:50 or Th 2:30-3:30

RUS V 1501y

Elementary Grammar Lecture

Equivalent to V 1501x, but given in Spring term.
Hours TBA

RUS V 1502x

Elementary Grammar Lecture

Equivalent to V 1502y, but given in Fall term.
Hours TBA

RUS V 1201x-RUS V 1202y

Intermediate Course

Reading, composition, grammar review.

—V. Lebedev, F. Miller

Prerequisite: Course V 1102 or the equivalent.

Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to class. Department permission required.

4 points. Sec. 1 M Tu W Th F 12:00

Sec. 2 M Tu W Th F 1:10

RUS V 1201y

Intermediate Course

Equivalent to V 1201x, but given in Spring Term. —Instructor TBA.

Prerequisite: V 1102 or the equivalent.

4 points. M Tu W Th F 10:00

RUS V 1202x

Intermediate Course

Equivalent to V 1202y, but given in Autumn Term. —Instructor TBA.

Prerequisite: V 1201 or equivalent.

4 points. M T W Th F 10:00

RUS V 3331x, RUS V 3332y

Advanced Course

Emphasis on conversation and composition; reading and discussion of selected texts and video tapes; lectures, papers, and oral reports. Conducted entirely in Russian. — M. Kashper, V. Lebedev

Prerequisite: Two years of college Russian and permission of the instructor. Enrollment limited.

Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.

4 points. Sec. 1 M Tu W Th F 10:00

Sec. 2 M Tu W Th F 1:10

RUS V 3421x

Russian Phonetics and Intonation

Review of principles of phonetics and intonation for advanced students. Intense drill for the development of correct speech habits. Attention to expressive reading and poetry recitation. Taught completely in Russian. —M. Kashper

Prerequisite: Three years of college Russian and permission of the instructor.

2 points. Tu Th 11:00-11:50

RUS V 3441x, RUS V 3442y
Fourth-Year Conversation and Composition
 3 points. Not offered in 1993-94.

RUS V 3443x, RUS V 3444y
Fourth-Year Course

Reading and discussion of selected texts from 20th-century Russian literature. Discussion of different styles and levels of language, including word usage and idiomatic expression. Written exercises, translations into Russian, composition and oral reports. —M. Kashper

Prerequisite: Three years of college Russian and permission of the instructor. The second term may be taken without the first.

4 points. M W F 11:00-12:15

RUS W 4432x
Contrastive Phonetics and Grammar of Russian and English

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. Tu Th 2:40-3:55, and two hours TBA.

RUS W 4433y
Specific Problems in Mastering Russian

The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. Tu Th 2:40-3:55, and two hours TBA.

RUS W 4434x, W 4435y
Advanced Composition: The Writing of Expository Prose

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian. —M. Ledkovsky

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. M W 11:00-12:15

LITERATURE COURSES

RUS V 3333x-3334y
Introduction to Russian Literature

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn.

—I. Reyfman

Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.

3 points. M W F 1:10

III H

RUS W 4040y
Masterpieces of Russian Literature: 19th Century

3 points. Not offered in 1993-94.

III H

RUS W 4041y
Masterpieces of Russian Literature: 20th Century

A close study in the original of representative works by Andrei Bely, Sologub, Pasternak, Bulgakov, Nabokov, Olesha, Mandelstam, Anna Akhmatova, Solzhenitsyn, Abram Terts, and Brodsky. —I. Reyfman

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. M W F 12:00-12:50

III H

RUS V 3461x
Pushkin

3 points. Not offered in 1993-94.

III H

RUS V 3462x
Gogol

3 points. Not offered in 1993-94.

III H

RUS V 3463y
Tolstoy

A close reading, in the original, of Anna Karenina. Class discussion conducted in English.

—M. Ledkovsky

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. M W 2:40-3:55

III H

RUS V 3464y
Dostoevsky

3 points. Not offered in 1993-94.

H

RUS V 3466y
Chekhov

3 points. Not offered in 1993-94.

H

RUS V 3465y
Russian Poetry in the 19th and 20th Centuries

3 points. Not offered in 1993-94.

III H

RUS V 3467x
Twentieth-Century Prose Writers

A close study in the original of major writers of the 1980s. Class discussion in English.

—C. Nepomnyashchy

Prerequisite: RUS V 3334 or permission of the instructor.

3 points. Tu Th 10:35-11:50

III H

RUSSIAN

RUS V 3595x
Seminar

Topic: The growth of Russian national self-awareness. Class reports culminating in a critical paper. —M. Ledkovsky
Prerequisite: Major status or permission of the instructor.
4 points. W 4:10-6:00

RUS V 3596x or y
Individual Research

Supervised individual research culminating in a critical paper. —M. Ledkovsky
Open to senior majors, and permission of the instructor is required.
4 points. Hours to be arranged.

Literature in Translation

RUS V 3220x (formerly V 1226y)
Nineteenth-Century Prose

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy. —C. Nepomnyashchy
A knowledge of Russian is not required.
3 points. Tu Th 1:10-2:25 III H

RUS V 3221y (formerly V 1221y)
Twentieth-Century Prose

Course of Russian prose fiction from symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov. —C. Popkin
A knowledge of Russian is not required.
3 points. M W 4:10-5:25 III H

RUS V 3222y (formerly V 1222y)
Tolstoy and Dostoevsky

Major works of the two writers. —R. Gustafson
A knowledge of Russian is not required.
3 points. M W 1:10-2:25 III H

RUS V 3224y (formerly V 1224y)
Introduction to Russian Culture

3 points. Not offered in 1993-94. III

RUS V 3225y (formerly V 1225y)
Russian Women—Myth and Reality

Literary and historical records studied chronologically with focus on women's social position, their literary image, and their contribution to culture. Special attention to the Soviet period. —M. Ledkovsky
A knowledge of Russian is not required.
3 points. M W 2:40-3:55 III

RUS V 3226y (formerly V 1226y)
Russian Culture:
The Soviet Experience and Beyond

A survey of the historical development and contemporary problems of society. Attention given to cultural myths, popular culture, and the effects of glasnost and perestroika. —C. Nepomnyashchy
A knowledge of Russian is not required.
3 points. Tu Th 1:10-2:25, plus movies every other Monday, 6:00-8:00pm

RUS V 3227x
Ethnicity in Russian Literature

Readings, lectures, and discussion of texts that reflect and respond to the multi-ethnic character of Russia. Paper, midterm and final exam, and active class discussion required. —R. Belknap
A knowledge of Russian is not required; permission of instructor is required.
3 points. Tu Th 2:40-3:55 I H

Religion-Russian RER G 4006y
Modern Russian Religious Thought

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank and others. —R. Gustafson
A knowledge of Russian is not required; permission of instructor is required.
3 points. W 4:10-6:00 H

SLA V 3210x
The East European Literary Mind, 1945-1989

Examination of the wide range of East European responses to the new societies that emerged after World War II. Includes Czechoslovak, Hungarian, Polish, and Yugoslav works, read in translation. —H. Segel
A knowledge of Russian is not required; permission of instructor is required.
3 points. Tu Th 10:35-11:50 III H

SOCIOLOGY

410E Milbank Hall

854-4359; 3577

Professor Emerita: Mirra Komarovsky¹

Associate Professor: Jonathan Rieder (Chair)

Assistant Professor: Lynn Chancer, Kelly Moore

Adjunct Professors: Nathalie Friedman, Theresa Rogers

Other officers of the University offering courses listed below:

Professors: Priscilla Ferguson, Herbert Gans, Eugene Litwak, Marie Ruggie, Alan Silver, Seymour Spilerman, Harrison White

Associate Professors: Hiroshi Ishida, Eric Leifer

Assistant Professors: Karen Barkey, Martina Morris, Kathy Neckerman

¹Special Lecturer

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for its own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of 10 courses is required for the major, including

SOC BC 1003	<i>Introduction to Sociology</i>
SOC BC 3082	<i>Junior Colloquium</i>
SOC V 3211	<i>Quantitative Methods</i> (not later than the junior year)
SOC BC 3087-BC 3088	<i>Individual Projects for Seniors</i>

and at least five other courses selected in consultation with the major adviser. Sociology

SOCIOLOGY

BC 3211 should be taken no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including SOC BC 1003, and four courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1003x
Introductory Sociology
An introduction to the sociological imagination which focuses on group influences on the individual (conformity, social structure and personality, community and deviance); the institutional arrangements of class, gender, ethnicity, and bureaucracy; the role of social movements and technology in social change. —Kelly Moore
3 points. M W 2:40-3:55

S

SOC V 1005x
Medical Care in Twentieth Century America
3 points. Not offered in 1993-94.

S

SOC V 1205x
Evaluation of Evidence
A non-technical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments). —M. Morris
3 points. Tu Th 2:40-3:55

S

Note: One introductory course in sociology suggested for all 3000-level courses.

SOC BC 3082y
Junior Colloquium: Perspectives on Social Order
An examination of the major theoretical frameworks sociologists use to analyze power: symbolism, conflict, inequality, exchange, consensus, deviance, organization, values, and affiliation. Students will complete a prospectus that outlines the substantive topic, methodological approach, and theoretical concerns of their senior essays. —J. Rieder
Prerequisite: SOC BC 1003 or permission of the instructor.
4 points. Tu 2:10-4:00

S

SOC BC 3087x-3088y
Individual Projects for Seniors
The instructor will supervise the writing of long papers involving some form of sociological research and analysis. —N. Friedman
Required of all senior majors.
4 points. W 4:10-6:00

SOC V 3100y
Introduction to Social Theory
The rise and transformation of modern society in the 19th and 20th century. "Classical" literature such as Marx, Durkheim and Weber will be read. Selected topics: the relationship between individual, society, and polity; gender relations, class, and status relations; moral and instrumental action. —Instructor TBA
3 points. Tu Th 11:00-12:15

S

SOC BC 3115x
Feminist Theory
An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first and second-wave feminist theory, including recent works in psychoanalytic and post-modern feminism. The course also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory. —L. Chancer
Permission of the instructor required. Enrollment limited to 15 students.
4 points. Tu 4:10-6:00

S

SOC V 3200y
Gender, Class and Race
An examination of the critical role that gender, class, and race play in social life, and their relationship to inequality, community, and culture. The course will focus on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer
3 points. Tu Th 2:40-3:55

S

SOC V 3211y
Quantitative Methods

An introduction to statistical methods emphasizing their application to practical research problems. Topics include frequency distributions, cross-tabulations and correlation, basic concepts of probability, hypothesis testing, and the analysis of variance. Students will learn to execute basic statistical analyses on a personal computer. —K. Moore
3 points. M W 1:10-2:25 plus a lab hour TBA.

SOC V 3213y
Culture in Contemporary America

An analysis of the values and meanings that form American pluralism, the communities that create and consume culture, and the organizations that produce and distribute culture. Examples come from popular and elite culture: American individualism, rhythm and blues, Christian fundamentalism, advertising, abstract art, Orthodox Judaism, abortion politics, Reaganism, television comedy. —J. Rieder
3 points. Tu Th 10:35-11:50 S

SOC V 3216x
Organizations in Modern Society

An exploration of the growth of large organizations in politics, business, government, and culture; the structure of the corporation; not-for-profit organizations (art museums, universities); organizational cultures; dilemmas of hierarchy, power and alienation; the tension between organizations and democracy; left and right critiques of the organizational state. —K. Moore
3 points. M W 9:10-10:25 S

SOC W 3220y
Inside Larger Organizations

The control struggles behind the rise and current position of unions, professions, and managerial hierarchies inside large organizations. The contemporary problems of designing large organizations and controlling members in a way consistent with the hard-won prerogatives of workers, professionals, and managers. Mobility and careers that bind together organizations. Case studies are used, including one on the rise and current structure of organized baseball. —E. Leifer
3 points. M W 2:40-3:55 S

SOC 3221x
Social Disorganization: Deviance and Social Control

A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior. Crime is considered within the broader context of social deviance. —P. Read
3 points. M W 4:10-5:25 S

SOC 3222y
Criminology

Building upon theoretical perspectives studied in SOC W 3221x, theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime. —P. Read
3 points. M W 4:10-5:25 S

Sociology SOC V 3225y
Sociology of Education

Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling. —K. Neckerman
3 points. M W 1:10-2:25

SOC V 3920x
Science and Society

The social factors that shape the practice of science, the development of knowledge, and the impact of both on society. Topics include: the social construction of scientific facts; the institutional structure of the science world; feminist and other critiques of scientific "objectivity"; the politics of research on AIDS, nuclear power, and race. —K. Moore
3 points. Th 4:10-6:00 S

SOC V 3228y
Sociology of Medicine

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems. —T. Rogers
3 points. M W 2:40-3:55 S

SOC V 3235y
Social Movements

Social movements and the theories social scientists use to explain them, with emphasis on the American civil rights and women's movements. Topics include: theories of participation, the personal and social consequences of social movements, the rationality of protest, the influence of ideology, organization, and the state on movement success, social movements and the mass media. —K. Moore
3 points. M W 9:10-10:25 S

SOC V 3237y

Personal Relations in History

Impact of modern culture, market society, and bureaucracy on the ideals and practices of personal relations, with special emphasis on friendship. Trust, loyalty, sincerity, intimacy, and their opposites in ancient society, the Middle Ages and Renaissance, and contemporary society. Readings from literature, history, and anthropological and sociological research and theory. —A. Silver

Not recommended for freshmen. Admitted only with permission of the instructor.

3 points. M W 11:00-12:15

S

SOC W 3238x

Sociology of Everyday Life

Approaches to the study of culture through readings of the familiar “texts” of everyday life and the practices they reveal. Topics include food and cuisine, manners, urban topography, gender and popular culture. —P. Ferguson

3 points. M W 10:35-11:50

SOC W 3240x

Introduction to Japanese Society

3 points. *Not offered in 1993-94.*

SOC V 3310x

Gender and Deviance

3 points. *Not offered in 1993-94.*

SOC V 3320x

Social Problems

A consideration of the historical evolution of American theories of social problems and the application of theoretical frameworks to specific problems such as poverty, homelessness, crime, and race- and gender-based discrimination.

—L. Chancer

3 points. Tu Th 10:35-11:50

SOC V 3331y

Creation and Career in Art Worlds

Provides a heightened appreciation of the arts and the social forces through which they are made. Explores how patrons and artistic organizations combine with audiences and informal networks of artists to provide resources (emotional, intellectual and material support) necessary to artistic careers. Examines how social relations and cultural canons around artists affect the form and content of their art. —H. White

3 points. Tu Th 2:40-3:55

SOC W 3440y

Economy and Society

How corporate elites are organized, and their resulting influence in government policy and regulation. Similarities are found in elite organization across a variety of scales and cultures. How the base of elite power markets is organized as seen in a variety of case studies, from a Nigerian cattle market to Hollywood music composers to corn wet milling. How antitrust history illustrates the role of corporate elite in this seemingly anti-large business policy, and how to reformulate it on the basis of a sociological view of how markets actually work. —E. Leifer

3 points. M W 4:10-5:25

S

SOC V 3555y

Sociology of Family Institutions

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social-policy and the future of the family. —L. Chancer

3 points. Tu Th 9:10-10:25

S

SPANISH AND LATIN AMERICAN CULTURES

211 Milbank Hall

Chair: 854-8805

Language Coordinator: 854-5422

Administrative Assistant: 854-5417

Professors: Alfred Mac Adam (Chair), Mirella Servodidio, Marcia L. Welles¹

Assistant Professors: Licia Fiol-Matta, Alicia Ramos, Perla Rozencaiga

Lecturers: James Crapotta (Language Coordinator), Flora Schiminovich, Agueda Rayo, José Hernández

Associate: Vilma Bornemann Caraley

¹Absent on leave 1993-94.

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: First-year students with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course either on the basis of their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others must complete BC 1204. Spanish-speaking students may take BC 1208x instead with permission of instructor. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The Club sponsors discussion sessions, films and lectures by writers, artists, and visiting scholars.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Spanish subdivision of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

There are three majors available to prospective students in the department: **I. Language and Literature**, **II. Spanish Studies**, **III. Latin American Studies**. Each option requires a Senior Essay (BC 3999x or y *Independent Study for Majors*).

I. Language and Literature: This program emphasizes a knowledge of Spanish language and the literature of Spain and Latin America. The major consists of 11 courses.

The six required courses are:

- | | |
|---------------|---|
| BC 3115 | <i>Latin-American Culture I</i> |
| BC 3121 | <i>The Literature of Latin America: From the Colonial Period to Modernism</i> |
| BC 3123 | <i>Spanish Literature in the Middle Ages and the Early Renaissance</i> |
| BC 3127 | <i>Don Quijote</i> |
| BC 3125 | <i>The Struggle of Two Spains</i> |
| BC 3999x or y | <i>Independent Study for Majors</i> (thesis topic and adviser to be selected) |

Five electives of (3 points each) to be chosen from literature and culture courses at the 3000 level (in Spanish).

Requirements for the Minor: Six Courses: BC 3121, BC 3123, BC 3127 and three electives (of 3 points each) from the language and literature options at the 3000 level (in Spanish).

II. Spanish Studies: This program emphasizes the literature, history, and culture of Spain. The major consists of 12 courses (eight within the Department of Spanish, four within other disciplines).

SPANISH AND LATIN AMERICAN CULTURES

The five required courses are:

- BC 3123 *Spanish Literature in the Middle Ages and the Early Renaissance*
- BC 3124 *Literature of the Golden Age*
- BC 3125 *The Struggle of Two Spains*
- BC 3129 *The Culture of Spain*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Three electives of 3 points each to be chosen from the Peninsular literature and culture courses at the level 3000 level (in Spanish). BC 3004, Section 2, *Language and World View: Special Issues in Contemporary Spain* and BC 3131 *Civil War and Post-War Spain: Myth and Reality Through Film, History, and Literature* are strongly recommended.

Four courses from offerings in the Social Sciences or Humanities that relate to Spain and define a special field of interest (to be chosen in consultation with the Major adviser).

History BC 1011 and 1012 *Introduction to European History* are strongly recommended.

III. Latin American Studies: This program emphasizes the literature, history, and culture of Latin America. The major consists of 14 courses (eight within the Department of Spanish; six within other disciplines).

The four required courses are:

- BC 3115 *Latin American Culture I*
- BC 3116 *Latin American Culture II*
- BC 3121 *The Literature of Latin America: From the Colonial Period Through Modernism*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Four electives of 3 points each to be chosen from the 3000 level, two of which must pertain to specific regions of Latin America (BC 3113 *Contemporary Caribbean Literature*; BC 3117 *Literature of the Southern Cone*; BC 3118 *Contemporary Mexican Literature*; BC 3119 *Literature of the Andes*; BC 3120 *Twentieth-Century Puerto Rican Literature*).

Six courses in the Social Sciences or Humanities that pertain to Latin America and define a special field of interest (to be selected in consultation with the major adviser).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section: sign-up sheets on Departmental Bulletin Board.)

SPA V 1101x-1102y

Elementary First-Year Course

An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading and writing. Fundamentals of grammar.

"Walkman" player required for homework on audio tapes. —Staff

4 points. Sec. 1 M-F 10:00

Sec. 2 M-F 11:00

SPA BC 1103x

Intensive Review of Elementary Spanish

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. To be followed by BC 1203y. —Staff

4 points. Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

Sec. 3 M Tu W Th 3:10

SPA BC 1203x, y

Intermediate Course, Part I

Further development of spoken and written communication skills. Review of grammar and syntax. Discussion and analysis of short literary texts.

Some linguistic and cultural analysis of contemporary Spanish videos and films. —Staff

Prerequisite: V 1102 or BC 1103 or the equivalent.

4 points. x: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th F 11:00

Sec. 3 M Tu W Th F 3:10

y: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 1:10

Sec. 3 M Tu W Th 3:10

SPA BC 1204x, y **Intermediate Course, Part II**

Review of more advanced grammar points. Readings, discussions and analysis of important works by Latin American authors. Analysis and discussions of Latin American film. —Staff

3 points. x: Sec. 1 M W F 10:00

Secs. 2, 3 M W F 11:00

y: Sec. 1 M W F 9:00

Sec. 2 M W F 10:00

Sec. 3 M W F 11:00

SPA BC 1206x, 1207y **Intermediate Conversation**

Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics.

Materials include readings, cassettes and video tapes. Activities include role-playing, interviews, small group activities and oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-1102y or the equivalent. Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 1208x **Spanish for Spanish-Speaking Students**

Designed for native and non-native Spanish-speaking students who have oral fluency beyond the intermediate level but have had no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading, and building new vocabulary. May be used to satisfy language requirement with permission of the instructor. —A. Ramos

Prerequisite: oral fluency.

3 points. Tu Th 1:10-2:25

SPA BC 3107x, 3108y **Advanced Oral Spanish**

Designed to advance oral and listening skills through contact with advanced authentic materials such as newspapers, news broadcasts, films and videos.

Special emphasis on idiomatic expressions. Discussion and debates around controversial contemporary issues. Oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 3004x, y **Language and World View**

Reinforcement and development of modern language skills through focused attention on contemporary socio-political issues of Spain and Latin

America. Useful for students in Foreign Area Studies, Political Science, History and Economics. *Enrollment limited to 20 students. Sign-up sheets on Departmental Bulletin Board.*

3 points.

x. 3. Hispanics in the United States

An investigation of the cultural and socio-economic patterns of Hispanics in the United States, their participation in the world of entertainment, visual arts, and literature and their struggle for power. Reinforcement of oral and written Spanish. Films, newspaper and magazine articles, essays. —P. Rozencvaig.

M W 1:10-2:25

y. 2. Special Issues in Contemporary Spain

Features films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency. —A. Ramos.

M W 1:10-2:25

LITERATURE AND CULTURE COURSES

For non-majors, all courses except BC 3129, BC 3115, and BC 3116 will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated. The prerequisite for all literature and culture courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chair.

INTRODUCTORY COURSES

(Enrollment limited to 15 students. Sign-up sheets on Departmental Bulletin Board.)

SPA BC 3109x **Introduction to Literary Analysis**

Instruction in techniques of literary analysis applied to works representing different genres. Development of a critical vocabulary. Analysis of style, structure and content. Introduction to theories of criticism. —M. Servodidio

Designed to acquaint students with close reading of a limited number of major literary texts. Emphasis is on the analysis of language and genre and serves as a bridge between intermediate language courses and more advanced courses in literature and culture.

3 points. M W 11:00-12:15

H

SPANISH AND LATIN AMERICAN CULTURES

ADVANCED COURSES

LATIN AMERICA

SPA BC 3115x

Latin American Culture I

Latin-American history, society and art, from the time of the great Indian empires to the late 19th century. —P. Rozencvaig

3 points. M W 11:00-12:15

III

SPA BC 3116y

Latin American Culture II: A Socio-historical Approach

A revisionist examination of Latin American history, politics and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency. —L. Fiol-Matta

3 points. M W F 10:00

III

SPA BC 3119y

Literature of the Andes: Revolution and Identity

The region of the Andes (Colombia, Ecuador, Bolivia, Peru, and Chile) has produced great poets, Mistral, Neruda, and Vallejo, as well as extraordinary novelists, Donoso and Vargas Llosa. This course seeks to identify the essential traits of the region's literature and relate them to its tumultuous history. —A. MacAdam

Prerequisite: Permission of the instructor.

Satisfaction of language requirement.

3 points. Tu Th 10:35-11:50

III H

SPA BC 3120x

Twentieth Century Puerto Rican Literature

A study of Puerto Rican authors (Ferré, Sánchez, Pedreira, Julia de Burgos, González, Marqués) and their interpretation of socio-historical development in Puerto Rico. The relationship of these texts to historical writing (e.g., Quintero Rivera), and the revisionist trend in Puerto Rican historiography.

—L. Fiol-Matta

3 points. M W F 10:00

III H

SPA BC 3121x

The Literature of Latin America: From the Colonial Period Through Modernism

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of the Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during the period of modernism. —F. Schiminovich

3 points. Tu Th 1:10-2:25

III H

SPA BC 3136y

Experimental Texts by Latin American Women

An analysis of experimental works by Latin American women in fiction, poetry and drama, in order to uncover the relationship between women authors and foundational or *avant garde* movements such as *modernismo*, *vanguardias*, surrealism, fantastic literature, the so-called "boom", and revolutionary literature. Special emphasis on the relation between gender and writing. —L. Fiol-Matta

3 points. Tu Th 1:10-2:25

III H

SPAIN

SPA BC 3125x

The Struggle of Two Spains

A study of the conflicting ideologies and visions that shape the search for a national identity and ethos as reflected in 19th and 20th century writers like Larra, Galdós, Unamuno, Azorín, Baroja, Valle-Inclán, and Martín-Santos. —M. Servodidio

3 points. M W 2:40-3:55

III H

SPA BC 3123y

Spanish Literature in the Middle Ages and the Early Renaissance

A consideration of how east meets west in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early 16th century.

Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando de Rojas. A consideration of art, music, and history. Visit to Cloisters. —M. Servodidio.

3 points. Tu Th 10:35-11:50

III H

Spanish-Women's Studies SPW BC 3135y

Reading for Difference: Lesbian and Gay Themes in Hispanic Literature and Film

Homosexual issues and images in major literary works and films of Spain and Latin America. Themes include the social construction of sexuality, political contexts, gay and lesbian self-representation, homosexual desire, closeting and disclosure, defining a gay poetics. Authors include Lorca, Goytisolo, Tusquets, Molloy, Peri Rossi, Puig and Almodóvar. —J. Crapotta

Prerequisites: Completion of language requirement in Spanish.

3 points. Tu Th 4:10-5:25

III H

SPA BC 3127y

Don Quijote

A study of Cervantes' masterpiece, concentrating on the narrative models available to him and his own creation of the "Novel." Readings also include selected *Novelas Ejemplares* and critical studies.

—J. Crapotta

3 points. Tu Th 1:10-2:25

III H

COURSES IN ENGLISH

SPA BC 3203x

20th-Century Women Poets of the Americas: Kindred Voices

Cross-cultural themes, images and poetics in women poets of North America and Latin America. Discussion topics include: the search for a matrilineal poetic ancestry; the revival of the goddess; the poetics of subversion. Emphasis on African American, Native American and Latina authors like Ntozake Shange, Sonia Sánchez, Mary Tallmountain. Also Gabriela Mistral, H.D., Rosario Castellanos, Claribel Alegria, Adrienne Rich. —A. Rayo

3 points. Tu Th 2:40-3:55

H

SPA BC 3265y

Latin American Literature in Translation

A study of contemporary Latin American narrative; its origins and apotheosis. Readings include Machado de Assis, Borges, García Márquez, Puig, and others. —A. Mac Adam

3 points. Tu Th 10:35-11:50

I H

COURSES NOT OFFERED IN 1993-94

Language

SPA BC 1001x-1002y

Intensive Elementary Course

SPA BC 3008

Language and Film: Issues in Contemporary Spanish Cinema

SPA BC 3106

Advanced Composition and Translation

SPA BC 3096

Poetry Writing in Spanish

SPA BC 3004

1. Latin-American Women Today: Facts and Fallacies

SPA BC 3110

An Introduction to Spanish Theater

SPA BC 3117

Literature of the Southern Cone: the Dialectics of Fantasy and Reality

SPA BC 3118

Contemporary Mexican Literature: The Interplay of History and Narrative

SPA BC 3124

Literature of the Golden Age

SPA BC 3126

Archetypal Patterns in Contemporary Women's Fiction

SPA BC 3128

Eighteenth-Century Spain: Dreams of Reason

SPA BC 3129

The Culture of Spain

SPA BC 3130

García Lorca: The Poet in His Contexts

SPA BC 3131

Civil War and Post-War Spain: Myth and Reality Through Film, History and Literature

SPA BC 3132

Contemporary Literature: From the Avant-Garde to Social Realism and After

SPA BC 3134

Marriage and Adultery in 19th-Century Spanish Fiction

SPA BC 3140

Narrative and Revolution: Mexico, Cuba and Nicaragua

Courses in English

SPA MRS BC 3087

Spain of the Habsburgs: A Culture in Crisis

SPA BC 3201

Modern Latin-American Narrative

SPA BC 3204

Literature of the Americas

SPA BC 3905

Crosscurrents in the Art and Literature of Spain 1559-1800

FOR SPANISH AND PORTUGUESE COURSES AT COLUMBIA UNIVERSITY, CONSULT COLUMBIA UNIVERSITY BULLETIN

Officers of the University offering courses in Statistics:

Professors: Cyrus Derman (IEOR), Ioannis Karatzas, Joseph Fleiss (School of Public Health), O.C. Heyde, David H. Krantz (Psychology), Paul Meier (Chairman).

Associate Professors: Bruce Levin (School of Public Health), Shaw-Hwa Lo (School of Public Health), Karl Sigman (IEOR), David Yao (IEOR), Zhiliang Ying

Assistant Professors: Melissa Begg (School of Public Health), Jaksa Cvitanic¹, Victor de la Peña, Guillermo Gallego (IEOR), Marianthi Markatou, Myonghee Paik (School of Public Health), Priya Wickramaratne (School of Public Health), John Winnicki

Adjunct Assistant Professors: Demissie Akemayehu

¹Absent on leave 1993-94

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult your respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major including:

Mathematics V 1101, V 1102 and V 2010, or their equivalents

Statistics-IEOR W 3658 or STAT IEOR W 4105, Statistics W 3659, W 3662 and W 3701.

One approved course in computer science beyond the introductory level and five additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least two of which must be statistics courses numbered above 4100, excluding STAT IEOR W4150.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in Statistics requires a minimum of six courses, five in statistics including: W 3658 (or W 4105), W 3659, W 3662, and any statistics course numbered above 4100, except STAT IEOR W4150; and one approved course in Computer Science.

COURSES OF INSTRUCTION

STA W 1001x, y**Introduction to Statistical Reasoning**

Designed for students in non-quantitative fields. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn mainly from the social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modelling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters.

—x: V. de la Peña, y: M Begg

Prerequisite: some high school algebra.

3 points. x: Tu Th 10:35-11:50

y: Tu Th 10:35-11:50

STA W 1111x, y**Introduction to Statistics**

Designed for students in fields (such as economics) that emphasize quantitative methods.

Probability concepts and basic theory of sampling distributions are used as aids to quantitative theory and data analysis, with illustrations drawn from the natural and social sciences.

Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modelling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters.

Prerequisite: High school mathematics through intermediate algebra. Enrollment limited to 35 per section.

3 points. x: Sec. 1 Tu Th 10:35-11:50 —TBA

Sec. 2 Tu Th 6:10-7:25 —S. Lo

y: Sec. 1. Tu Th 10:35-11:50 —TBA

Sec. 2 Tu Th 6:10-7:25 —Z. Ying

STA W 1211x, y**Introduction to Statistics B**

Prerequisite: Calculus I

3 points. x: Tu Th 6:10-7:25 —M. Markatou

y: Hour TBA. —Instructor TBA.

STA W 2201x**Introduction to Data Analysis**

Designed for students in non-quantitative fields. The role of statistical methods within the realm of scientific research methods. Utility of statistics to describe and analyze human, societal, and natural phenomena. Fundamental stages of methodological statistics: identification of objectives, information collection, organization, analysis and interpretation of data. Case studies using

a computer statistical package. —D. Krantz

Prerequisite: STA W 1001 or the equivalent.

3 points. M W 10:35-11:50

STA-IEOR STI W 3600x**Introduction to Probability and Statistics**

Fundamentals of probability and statistics used in engineering and applied science. Probability: random variables, useful distributions, expectations, laws of large numbers, central limit theorem. Statistics: point estimations, confidence intervals; hypothesis tests, linear regressions, ANOVA. —C. Derman

Prerequisite: A working knowledge of calculus.

4 points. Hours TBA

STA-IEOR STI W 3658x**Probability**

Fundamentals of probability theory.

Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. —D. Yao

Prerequisite: a working knowledge of calculus.

3 points. Hours TBA.

STA W 3659y**Statistical Inference**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression.

Introduction to the theory of hypothesis testing.

Likelihood ratio tests. Nonparametric procedures.

Statistical design theory. Applications to engineering, medicine, natural and social sciences. —I. Karatzas

Prerequisite: Statistics-IEOR W 3600 or W 3658 or the equivalent.

3 points. Tu Th 6:30-7:45

STA W 3662x**Regression and Analysis of Variance**

Simple linear regression. Multiple regression.

Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs.

Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares. —H. Levene

Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.

3 points. W F 4:10-5:25

STA W 3701y

Introduction to Data Analysis

Data analysis using a computer statistical package and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format. —D. Alemayehu

Prerequisite: A one-term introductory statistics course.
3 points. M W 6:10-7:25

Two hours of laboratory to be arranged.

STA W 4011x, y

Statistical Methods for Social Research

Prerequisite: Intermediate algebra.

3 points. x: Tu Th 6:10-7:25 —D. Rabinowitz

y: Tu Th 6:10-7:25 —P. Meier

STA-IEOR STI W 4105x, y

Probability

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; Central limit theorem.

—x: D. Alemayehu; y: V. de la Peña

Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior-undergraduate or M.A. level.

3 points. x: M W 6:10-7:25

y: M W 7:35-8:50

STA W 4113y

Nonparametric Statistics

Given in alternate years. Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation.

Introduction to sequential statistical procedures. Applications to quality control and clinical trials.

—P. Wickranaratne

Prerequisite: STA W 3659

3 points. M 1:00-3:30

STA W 4115y

Multivariate Statistical Inference

Multivariate normal distribution; multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. —M. Paik

Prerequisite: Statistics W 3662

3 points. Tu Th 2:35-3:50

STA W 4141x

Sequential Methods in Statistics

3 points. Not offered in 1993-94.

STA W 4143x

Theory and Analysis of Lifetime Data

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data. —M. Begg

Prerequisites: Statistics W 4101 or the equivalent.

3 points. Tu Th 10:00-11:15

STA-IEOR STI W 4150x, y

Introduction to Probability and Statistics

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression. —x: C. C. Heyde, y: G. Gallego

Prerequisite: A working knowledge of calculus.

3 points. x, y: W F 11:00-12:15

STA W 4220y

Analysis of Categorical Data (PH 8120)

A thorough study of the fourfold table, with applications to epidemiological and clinical studies. Significance versus magnitude of associations, estimation of relative risk; matching cases and controls; effects, measurement, and control of misclassification errors; combining evidence from many studies. —B. Levin

Prerequisite: PH 6104 and PH 6400 or their equivalents and permission of the instructor.

3 points. W 1:30-4:00

STA W 4315y

Linear Regression Models (PH 8111)

The theoretical background underlying regression techniques. Simple regression. Bivariate normal distribution and correlation. Multiple and polynomial regression. —Instructor TBA.

Prerequisite: A working knowledge of calculus.

3 points. x, y: W F 11:00-12:15

STA W 4325x

Generalized Linear Models

Identical to Public Health P 8121. —M.H. Paik

Prerequisite: Linear Models: STA W 4112 or W 4315

3 points. Tu Th 1:30-3:00

STA W 4327y
Design of Experiments (PH 8116)

Principles in the design and analysis of controlled experiments: Latin squares, incomplete block designs, crossover designs, fractional factorial designs, confounding. —J. Fleiss
Prerequisite: PH 8111 or the equivalent and permission of the instructor.
3 points. F 9:30-12:00

STA-IEOR STI W 4606x, y
Elementary Stochastic Processes

Review of elements of probability theory. Poisson process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queuing theory, inventory models, branching processes.
Prerequisite: Statistics-IEOR W 3658, Statistics-IEOR W 4105 or the equivalent.
3 points. x: M W 2:10-3:55. K. Sigman
y: Tu Th 4:10-5:25. J. Winnicki.

STA C 3997x or y
Independent Research

The student participates in the current research of a member of the department and prepares a report on the work. —Staff.
Prerequisite: The permission of a member of the department. May be repeated for credit.
3 points.

THEATRE

230 Milbank Hall

854-2079, 2090

Adjunct Associate Professor and Director of the Minor Latham Playhouse: Elizabeth Swain (Acting Chair)

Adjunct Assistant Professors: Elizabeth Covey, Ann McDonough, Gregor Paslawsky, Neal Ann Stephens

Lecturer: Patricia Denison (English)

Other officers of the University offering Barnard courses

Professor: Andrei Serban

The Theatre Department offers the student three tracks for concentration: Performance (Acting and Directing), Design and Technical Theatre, and Critical and Historical Studies. Within the context of Barnard's liberal arts program the student is provided with the opportunity to develop a strong intellectual and artistic approach to the work. Although the department offers a Theatre History sequence, an Acting and Directing sequence and a Design and Technical Theatre sequence, additional courses in Dance, Art History, Literature, Music, and Dramatic Literature are to be undertaken outside the department.

The liberal arts experience is of great importance to the student who must learn to analyze texts, research historical, social and cultural contexts and make critical decisions, all of which lend to the artistic rendering of a play.

All theatre majors will have responsibilities relating to major productions in the areas of directing, acting, design, technical work or dramaturgy.

REQUIREMENTS FOR THE MAJOR

Students intending to major in Theatre should consult with the chair in their sophomore year or earlier to plan a program.

Required Courses

ETR BC 3131

History of the Theatre: Greeks to the Italian Renaissance

ETR BC 3132

History of the Theatre: Shakespeare to the 19th Century

ETR BC 3133

History of the Theatre: Modern Period

Three courses in dramatic literature as set forth below:

1) ENG BC 3163 or BC 3164 *Shakespeare*

2) One seminar on Dramatic Literature selected from:

ETR 3134

Seminar on Contemporary British Political Theatre

ETR 3135

Seminar on Nineteenth Century Social Drama

ETR 3136

Seminar on Shakespeare in Performance

ETR 3137

Seminar on Restoration and 18th Century Drama

ETR 3138

Seminar on American Political Drama

THR 3140

Seminar on Women in Theatre

or other seminars on Dramatic Literature

3) One course selected from the following:

CLL V 3123

Classical Literature: Greek Drama and Its Influences

GRE V 3305

Tragedy

ENG BC 3169

English Drama: 900-1645

ENG BC 3186

Modern Drama

ENG BC 3163 or ENG BC 3164 *Shakespeare*

ETR BC 3134

Seminar on Contemporary British Political Theatre

ETR BC 3135

Seminar on 19th-Century Social Drama

ETR BC 3136

Seminar on Shakespeare in Performance

ETR BC 3137	<i>Seminar on Restoration and 18th-Century Drama</i>
THR BC 3140	<i>Seminar on Women in Theatre</i>
ETR BC 3138	<i>Seminar on American Political Drama</i>
FRE BC 3039	<i>Twentieth Century French Theatre</i>
GER BC 3018	<i>Schiller and Kleist</i>
GER BC 3061	<i>Seminar: Faust</i>
ITA V 3641	<i>Italian Theatre in the Renaissance</i>
SPA BC 3110	<i>An Introduction to Spanish Theatre</i>

(Other courses in dramatic literature may be substituted with permission of the chair.)

Six additional courses to be chosen in consultation with the departmental adviser from the following:

THR BC 3001	<i>Acting I: Introduction to Acting</i>
THR BC 3002	<i>Acting II: Mask</i>
THR BC 3003	<i>Acting III: Clown</i>
THR BC 3004	<i>Acting IV: Beginning Scene Study</i>
THR BC 3005	<i>Acting V: Advanced Scene Study</i>
THR BC 3006	<i>Acting VI: Problems in Style</i>
THR BC 3120	<i>Stagecraft</i>
THR BC 3131	<i>Basic Design for the Theatre</i>
THR BC 3132	<i>Scenic Design</i>
THR BC 3133	<i>Costume Design</i>
THR BC 3134	<i>Lighting Design</i>
THR BC 3201	<i>Directing I</i>
THR BC 3202	<i>Directing II</i>
THR BC 3500	<i>Special Studies in Theatre</i>
ARS BC 3031x	<i>Imagery and Form in the Arts</i>
ENG BC 3113	<i>Dramatic Writing</i>
ENG BC 3121	<i>The Uses of Speech</i>
ENG BC 3124	<i>Oral Interpretation of Dramatic Literature</i>
DAN BC 2563	<i>Dance Composition: Form</i>
DAN BC 2564	<i>Dance Composition: Content</i>

(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the chair.)

The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, Criticism.

THR BC 3997	<i>Senior Project: Performance</i>
THR BC 3998	<i>Thesis Course in History, Dramaturgy, Criticism</i>

All students wishing to take acting courses above Acting I must audition once a semester for advice and placement.

COURSES OF INSTRUCTION

Please note that there is an 18 point limit on studio courses for non-majors. A major may take 24 studio points in Theatre and an additional six in another discipline for a total of 30 studio points. Theatre Department studio courses are THR BC 3001-3006: *Acting I-VI*, THR BC 3202: *Directing II* and THR BC 3120: *Stagecraft*.

Acting I-V must be taken in sequence. A student with prior serious training may audition to place out of Acting I, but should first consult with the Department Chair. *Acting VI: Shakespeare* may be taken out of sequence after consultation with the instructor.

THR BC 3001x, y

Acting I: Introduction to Acting

An introduction to the process of acting. Development of the actor's instrument focusing on the body, voice, the senses and the imagination. Classes will consist of physical exercises, games, theatre exercises, improvisation, discussion and presentation of assignments.

3 points.

x: Sec. 1 Tu Th 10:00-11:50 —Instructor TBA.

Sec. 2 Tu Th 12:00-1:50 —G. Paslawsky

Sec. 3 Tu Th 2:10-4:00 —G. Paslawsky

Sec. 4 M W 10:00-11:50 —A. McDonough

Sec. 5 M W 12:00-1:50 —A. McDonough

Sec. 6 M W 2:10-4:00 —Staff

y: Sec. 1 Tu Th 12:00-1:50 —G. Paslawsky

Sec. 2 M W 10:00-11:50 —A. McDonough

Sec. 3 M W 12:00-1:50 —A. McDonough

Sec. 4 Tu Th 2:10-4:00 —Staff

2 additional hours TBA.

THR BC 3002x, y

Acting II: Mask

Continuing the development of skills acquired in Acting I. The focus is on acting as a process of discovery. The mask is used as a tool to free the actor physically, vocally and psychologically. Classes consist of increasingly structured improvisations developing character work and ensemble. —Staff

Prerequisite: Acting I and/or placement audition.

3 points. x, y: Sec. 1 M W 10:00-11:50

Sec. 2 M W 2:10-4:00

THR BC 3003x, y

Acting III: Clown

A development of the acting process using the European clown tradition. Through the discovery of a clown persona, students will explore truth and spontaneity with other actors and an audience. —G. Paslawsky

Prerequisite: Acting II.

3 points. Tu Th 10:00-11:50 plus 2 additional hours TBA.

THR BC 3004x

Acting IV: Beginning Scene Study

Development of the actor's ability to live truthfully, moment to moment, under the imaginary given circumstances of a text. Classes consist of developing the actor's concentration, emotional preparation, use of creative fantasy and personalization as applied to scene work. Considerable time is spent outside class on preparation for exercises and rehearsals for scene presentations. —Staff

Prerequisite: Acting II, Acting III and permission of the instructor.

3 points. M W 12:00-1:50 plus 2 additional hours TBA.

THR BC 3005y

Acting V: Advanced Scene Study

Development of the actor's ability to live truthfully, moment to moment, from the point of view of the character, under the imaginary given circumstances of a play. Classes consist of scene work emphasizing building a character and creating a role. Five scene assignments with outside preparation and rehearsal will be required. —Staff

Prerequisite: Acting II, Acting III, Acting IV and permission of the instructor.

3 points. M W 12:00-1:50 plus two additional hours TBA.

THR BC 3006y

Acting VI: Problems in Style (Master Class)

The first half of a year-long course. Must be continued in Spring semester. No credit is given for THR BC 3006x without THR BC 3006y Sec. 1.

—A. Serban

Prerequisite: permission of the department chair.

1.5 points. F 10:00-12:00

THR BC 3006y Sec. 1

May only be taken in sequence with 3006x.

—A. Serban

1.5 hours. F 10:00-12:00

THR BC 3006y Sec. 2

Acting VI: Problems in Style (Shakespeare)

Course designed to broaden knowledge of periods, writers, works, genres, and theories through rehearsal and performance, oral reports, textual analyses, and investigation of cultural and aesthetic background of specific works. The subject for spring of 1994 will be Shakespeare. —E. Swain

Permission of the instructor required.

3 points. Tu Th 10:00-11:50 plus 2 additional hours TBA.

Note: Students taking both sections of THR BC 3006y will receive credit for both.

ETR BC 3131y

History of Theatre:

The Greeks to the Italian Renaissance

Study of theatre literature and theatre practice in the Greek and Roman periods through the Middle Ages and the Italian Renaissance. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

III H

ETR BC 3132x

History of Theatre: Shakespeare to the 19th Century

Enrollment limited to 40 students. Alternate years.

3 points. Offered in Autumn 1994

III H

ETR BC 3133x**History of Theatre: Modern Period**

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavsky, Meyerhold, Artaud, Brecht, Grotowski and Brook, the innovations of Craig, Appia and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw and other playwrights up to modern times. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

III H

THR BC 3120x**Stagecraft**

Introduction to theatrical practices with an emphasis on production organization, set construction, lighting, costumes and sound. A course in fundamentals which will expand the appreciation of the creative process in the theatre. Students will apply this knowledge through laboratory participation in departmental productions. —N. Stephens

Open to theatre majors or prospective majors, and by permission of the instructor.

3 points. Tu Th 10:35-11:50

Laboratory hours TBA.

THR BC 3131y**Basic Design for the Theatre**

The basic concerns, methods, and tools of the designer, focusing on problems of conceptualization, the designer's encounter with the text, and the translation of concept into plastic stage image in sets, costume, and lights. The course includes guest lecturers from professional theatre. —N. Stephens

3 points. M W 11:00-12:15

THR BC 3132x**Scenic Design**

Study and practice of the basic elements of scenic design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. —Staff

3 points. Th 4:00-6:30

THR BC 3133y**Costume Design**

3 points. *Not offered in 1993-94.*

THR BC 3134y**Lighting Design**

Study and practice of the basic elements of lighting design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre. —Staff

3 points. M 4:00-6:30

III

THR BC 3500x, y**Special Studies in Theatre**

Special problems in theatre for actors, directors, designers and critics. —Staff

4 points. *Hours TBA*

ETR BC 3134x**Seminar on Contemporary British Political Theatre**

An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakoff, Keefe and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre. —E. Swain

Prerequisite: One semester of theatre history or permission of the instructor. Enrollment limited to 20.

4 points. W 4:10-6:00

III H

ETR BC 3135y**Seminar on 19th-Century Social Drama**

4 points. *Not offered in 1993-94.*

H

ETR BC 3136y**Seminar on Shakespeare in Performance**

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison

Enrollment limited to 20 students.

4 points. Th 4:10-6:00.

H

ETR BC 3137y**Seminar on Restoration and 18th-Century Drama**

Performance conventions, dramatic techniques, and cultural contexts from 1660-1800. Playwrights include William Wycherley, Aphra Behn, Mary Pix, Susannah Centlivre, George Etherege, William Congreve, John Gay, and Richard Sheridan.

—P. Denison

Enrollment limited to 20 students.

4 points. Tu 4:10-6:00

ETR BC 3138y**Seminar on American Political Drama**

4 points. *Not offered in 1993-94.*

THEATRE

THR BC 3140x

Seminar on Women in Theatre

The course will explore different images of women as presented in dramatic literature of various countries and historical periods, and of women's evolving roles as practitioners of theatre: as playwrights, directors, actresses, etc. —E. Swain

Enrollment limited to 15 students.

4 points. Offered in 1994-95.

THR BC 3201y

Directing I

Script analysis for the director and the examination of texts according to structure and metaphor, within a theoretical framework. From this study the student proceeds to an exploration of the director's production concept: its formulation through analysis and rehearsal process, and realization in theatrical terms. The works of seminal directors and theorists such as Stanislavsky, Artaud, Meyerhold and Brecht will be dealt with in depth. —Staff

Prerequisite: THR BC 3001, THR BC 3120.

3 points. Tu Th 12:00-1:50

THR BC 3202x

Directing II

An advanced course concentrating on problems of style and work with the playwright. The student will direct a play for public performance at the end of the semester. —Staff

Prerequisite: THR BC 3201 or permission of the instructor.

3 points. Tu Th 12:00-1:50

THR BC 3997x, y

Senior Project: Performance

A performance in the areas of acting, directing or designing a play. The student will demonstrate proficiency in her area. A paper demonstrating research performed and process evolved will also be required. —Staff

Prerequisite: THR BC 3120. Enrollment limited to senior Theatre majors.

3 points. Hours TBA.

THR BC 3998x, y

Thesis Course in History, Dramaturgy, Criticism

The student will write a substantial paper focusing on a selected topic in Theatre History or Dramatic Criticism, providing political, philosophical and social context. —Staff

Enrollment limited to senior Theatre majors.

Prerequisite: THR BC 3120.

3 points. Hours TBA.

THR BC 3999

Independent Study

—Staff

3 points. Hours TBA.

URBAN AFFAIRS

406 Lehman Hall

854-3866, 8422

This program is supervised by the Committee on Urban Affairs:

Professor of Political Science: Demetrios Caraley (Chair)

Associate Professor of Urban Affairs and Political Science: Ester Fuchs (Director)

Professor of Anthropology: Paula G. Rubel

Professor of Economics: Deborah D. Milenkovitch

Assistant Professor of History: David Farber

Assistant Professor of Urban Affairs and Political Science: J. Phillip Thompson

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

A) Eight courses distributed as follows:

1. One course each in three of the following departments from among those courses indicated:

Anthropology V 3100	<i>Anthropology of Urban Life</i>
Economics W 3228	<i>The Urban Economy</i>
History W 4673 or W 4674	<i>American Urban History</i>
Political Science V 3313	<i>American Urban Politics</i>
Sociology V 3265	<i>Minorities and Ethnic Groups in American Life</i>
or Sociology V 3324	<i>Urban Sociology</i>

2. One course dealing primarily with urban subject matter from a list approved by the committee in one other department such as art history, architecture, English, psychology, urban planning, environmental science or a social science statistics course.

3. In the junior year:

two Urban Affairs Junior Colloquia:

V3545	<i>Shaping of the Modern City</i>
V3546	<i>Contemporary Urban Problems.</i>

4. In the senior year:

two semesters of research seminar in the department of concentration

B) The satisfactory completion of not fewer than five courses in the department of concentration as specified in the Urban Affairs handout. Urban Affairs majors register for senior research seminars in the department of concentration.

The list of specific courses and of the departments that offer specializations for urban affairs majors is available in the Political Science Department Office. Appropriate courses can be substituted with the approval of Professor Caraley or Professor Fuchs.

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

Colloquia

***UAF BC 3535y**

Colloquium on Urban Administration and Management

Processes of administration and management of cities. Executive leadership, decision-making bureaucracy, budgeting and personnel. —J.P. Thompson
Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to 20 students.
 4 points. M 2:10-4:00. III S

UAF BC 3537y

Workshop in Urban Administration and Management

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internship of 8-10 hours per week. —J.P. Thompson
Corequisite: Urban Affairs BC 3535x.
 2 points.

***Urban Studies UST V 3545x-V 3546y**

Junior Colloquia on Urban Affairs

Autumn Term: Shaping of the Modern City. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. —D. Farber
 4 points. Tu 11:00-12:50. S

Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. —E. Fuchs
Permission of the instructor required. Enrollment limited to 15-20 students.

4 points. W 9:10-10:50. S

POS G 8232x

*Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley
Prerequisite: BC 3001 or V 3313 and permission of the instructor.

4 points. Th 2:10-4:00

Research Seminar

Political Science-Sociology PSS V 3994x-V3995y

New York Area Undergraduate Research Program

An ongoing program that develops an urban research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms.

4 points. Tu 2:10-4:00

WOMEN'S STUDIES

203, 204 Barnard Hall

854-2108

Professor: Natalie B. Kampen¹ (Chair and Art History), Lila Braine (Acting Chair and Psychology)

Associate Professor: Afsaneh Najmabadi

Assistant Professors: Timea Szell (English), Deborah Valenze (History), Judith Weisenfeld (Religion), Angela Zito (Religion)

Instructors: James Crapotta (Spanish), Agueda Rayo (Spanish), Quandra Prettyman (English)

Adjunct Assistant Professors: Ellen Chesler, Linda Earle, Kimiko Hahn, Patricia White, Elizabeth Wiesen

Advisory Board: Leslie Calman (Center for Research on Women), Lynn Chancer (Sociology), Helene Foley (Classics), Laura Kay (Physics), Mirra Komarovsky (Sociology), Theresa Rogers (Sociology), Rosalind Rosenberg (History), Judith Russell (Political Science), Susan Sacks (Education), Flora Schiminovich (Spanish), Elizabeth Swain (Theatre), Student Members.

¹Absent on leave Autumn term.

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion and art; the redefinition of "history" through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural "roles" for women and men; and the shape of political movement which take gender as an organizational basis.

Early in their sophomore year, students interested in the major should consult the chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major and have access to Columbia graduate courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Center for Research on Women maintains an extensive and expanding resource collection on women's issues. The Center also sponsors a variety of lectures and discussions devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and focus their studies in one of two areas of concentration: humanities or social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments.

The requirements for the major are 14 courses to be distributed as follows:

WMS BC 3111	<i>Feminist Texts I: Wollstonecraft to Beauvoir.</i>
WMS BC 3113	<i>Feminist Texts II: Beauvoir to the Present</i>
WMS V 3112	<i>Colloquium in Feminist Theory</i>
WMS V 3521-3522	<i>Senior Research Seminar</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to

engage in original, interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research*.

The Combined Major Option

The combined major option includes seven courses in Women's Studies to be distributed as follows:

- WMS BC 3111 *Feminist Texts I*
- WMS BC 3113 *Feminist Texts II*
- WMS V 3112 *Colloquium in Feminist Theory*

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social sciences/history) and one in the other area (V 1001 may count in either area).

The requisite number of courses in the combining field, to be determined by the chair of that department or program; and

Two terms of a senior seminar to be taken in one of the fields combined in the major. The senior essay shall be designed to integrate the two areas of inquiry.

The combined major should be planned early in the sophomore year.

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

WMS V 1001x
Women and Men: Power, Politics, Poetry
An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. —D. Valenze, A. Zito
3 points. Tu 2:10-4:00. Discussion Th 2:10-4:00 I H

Anthropology-Women's Studies ANW V 3039y
Women in Third World Development
3 points. Not offered in 1993-94. S

WMS BC 3111x,y
Feminist Texts I: Wollstonecraft to Beauvoir
The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J.S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C.P. Gilman, Simone de Beauvoir and others in an attempt to discover the roots of the contemporary feminist movement. —x: E. Chesler, y: A. Najmabadi
Permission of the instructor required. Enrollment limited to 20 students.
4 points. x: M 2:10-4:00
y: W 2:10-4:00 S

WMS BC 3113x,y
Feminist Texts II: Beauvoir to the Present
Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language and cultural representations. —x: A. Najmabadi, y: A. Rayo
Permission of the instructor required. Enrollment limited to 20 students.
4 points. x: M 4:10-6:00
y: M 2:10-4:00 H

WMS V 3112x
Colloquium in Feminist Theory
An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. —A. Najmabadi
Prerequisite: Major Texts I or II and permission of the instructor.
4 points. Tu 10:00-12:00, Th 10:00-11:00

WMS BC 3115x

Workshop in Women's Organizations

An optional course co-requisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations.

—A. Najmabadi

Permission of the instructor required and co-registration with WMS V 3112. Not open to Columbia students.

2 points.

WMS BC 3117y

Women and Film

A critical interpretation of film from a feminist perspective and exploration of the relationship of gender to the language of film. —L. Earle

3 points. M W 4:10-6:30

I H

WMS V 3118x

The Image of African American Women in Film from 1900 to the Present: From Mammies to Matriarchs

3 points. Not offered in 1993-94.

I S

WMS BC 3120y

The Invisible Woman in Literature: The Lesbian Literary Tradition

An interdisciplinary exploration of the lesbian experience. —E. Wiesen

4 points. Tu 4:10-6:00

H

WMS V 3121x

Black Women in America

An interdisciplinary examination of the experiences of black women in America from slavery through the present. Emphasis will be on how the issues of race, gender, class and sexuality have shaped black women's lives. —J. Weisenfeld

4 points. W 2:10-4:00

Art History-Women's Studies AWS BC 3123y
Women and Art

3 points. Not offered in 1993-94.

I

SPW BC 3135y

Reading for Difference: Lesbian and Gay Themes in Hispanic Literature and Film

Homosexual issues and images in major literary works and films of Spain and Latin America. Themes include the social construction of (homo) sexuality, political contexts, gay and lesbian self-representation, homosexual desire, closeting and disclosure, defining a gay poetics. Authors include Lorca, Goytisolo, Tusquets, Molly, Peri Rossi, Puig and Almodóvar. —J. Crapotta

Prerequisite: Completion of language requirement in Spanish.

3 points. Tu Th 4:10-5:25

WMS BC 3501y

Comparative Feminisms

3 points. Not offered in 1993-94.

WMS V 3502y

Women and Science

4 points. Not offered in 1993-94.

S

WMS BC 3504x

Gendered Controversies: Women's Bodies and Global Conflicts

A seminar investigating the significance of social, political and cultural conflict centered around issues concerning women's lives. —A. Najmabadi

4 points. Not offered in 1993-94.

WMS BC 3505y

Women, Islam and Nationalism

A historical survey of how concepts of woman/gender have defined religious and national communities in the Islamic Middle East.. —A. Najmabadi

4 points. M W 11:00-12:15

II S

WMS BC 3508y

Asian American Women's Literature

This course explores selected texts written by Asian American women from diverse backgrounds, focusing on issues such as identity, gender, generation, race, class, region and language. —K. Hahn

4 points. Hours TBA.

WMS V 3521x, 3522y

Senior Seminar

Individual research in Women's Studies conducted in consultation with the instructor. The result of each research project submitted in the form of the senior essay, and presented to the seminar. —T. Szell

Prerequisites: BC 3111, BC 3112, or BC 3113 or permission of the instructor. Enrollment limited to senior majors.

4 points. Th 12:00-2:00

WMS BC 3599x,y

Independent Research

3 or 4 points. Hours to be arranged. Instructor TBA.

English-Women's Studies EWS BC 3144y

Minority Women Writers in the United States

Literature of 20th century minority women writers in the United States, with particular emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman

3 points. Tu Th 2:40-3:55

H

WOMEN'S STUDIES

WMS BC 3511x

Film and Sexual Identity: Lesbian, Film and Video

Critically examines representations of lesbians—and the lack of representation—in dominant cinema and feminist film theory as well as strategies of self-representation in contemporary film and video by and about lesbians. —P. White
Permission of instructor.

3 points. Tu Th 4:10-6:30

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

Students should consult the departmental and program listings for course descriptions.

Anthropology-Asian Civilizations AAS V 3501y **Women in Japanese Society**

—K. Ikeda

Anthropology ANT V 3830y **Colloquium: Male and Female; Monotheisms and Polytheisms**

—L. Combs-Schilling. *Not offered in 1993-94.*

Anthropology ANT V 3712x **Lines that Divide: Race, Class, and Gender in Contemporary American Society**

—K. Newman. *Not offered in 1993-94.*

Anthropology ANT G 4129x **Woman and Power: Indian Images of the Feminine**

—V. Dehejia. *Not offered in 1993-94.*

Classical Civilizations CLC V 3158y **Women in Antiquity**

—H. Foley

East Asian EAS V 3635x **The Female Voice in Japanese Literature, Religion and Culture**

—B. Ruch

East Asian EAS V 3650x **The Family in Chinese History**

—R. Hymes

Economics ECO BC 2010x **Sex, Discrimination, and the Division of Labor** —C. Conrad

English ENG BC 3140x **Explorations of Black Literature: 1460-1890** —Q. Prettyman

English ENG BC 3140y **Women and the Profession of Letters** —J. Basker

English BC 3997x, 3998y **Senior Seminars in Literature 3998y**

1. The Middle Ages: Images of Women —T. Szell

English ENG C 3773x **American Women Poets** —P. Wal

English ENG W 3960x **Men and Women in Victorian Fiction** —C. Bonica

German GER W 3448x **Women in 19th Century Literature** —P. Perdy

History HIS BC 3427x **Women, Class and Culture** —D. Valenze. *Not offered in 1993-94.*

History HIS BC 3074y **History of Sexuality** —B. Bailey.

History HIS W 3115x **History of Women in America, 1700-1900** —E. Blackmar

History HIS W 3946x **Social History of 20th-Century Housing and Homelife** —E. Blackmar

History HIS BC 3082x **American Women in the 20th Century** —R. Rosenberg

Linguistics LIN BC 3052y **Gender Systems** —J. Malone. *Not offered in 1993-94.*

Philosophy PHI BC 3147y **Philosophical Issues of Feminist Theory** —S. Larson

Political Science POS V 3328y **Women and American Politics** —Instructor TBA.

Political Science POS BC 3440x **Colloquium on Women in Western Political Thought** —L. Calman. *Not offered in 1993-94.*

Political Science POS BC 3440x **Women and Third World Politics** —L. Calman.

Psychology PSY BC 3152y
Psychological Aspects of Human Sexuality
 —W. McKenna

Psychology PSY BC 3378x
Females and Males: A Psychological Perspective
 —C. Williams

Psychology PSY BC 2371x
Psychology and Women
 —L. Braine

Religion V 3804y
Body, Gender and Belief in China
 —A. Zito

Religion V 3803x
Issues of Gender in Ancient and Medieval Christianity
 —K. Cooper

Religion HIR V 3804y
Black Women's Religious Experiences
 —J. Weisenfeld

Sociology SOC V 3310x
Gender and Deviance
 —L. Chancer

Sociology SOC BC 3115y
Feminist Theory
 —L. Chancer

Sociology SOC V 3303y
Female and Male: A Sociological Perspective
 —M. Komarovsky

Sociology SOC V 3555y
Sociology of Family Institutions
 —L. Chancer

Sociology SOC V 3200y
Gender, Class and Race
 —L. Chancer

Spanish SPA BC 3203x
20th Century Women Poets of the Americas: Kindred Voices
 —A. Rayo

Spanish SPA BC 3126x
Archetypal Patterns in Contemporary Women's Fiction
 —M. Servodidio

Spanish W 3500y
Contemporary Spanish Women Writers
 —G. Sobejano

Spanish and Portuguese SPA W 3468y
Special Topics in Spanish America: Women Writers of Latin America
 —J. Franco

Theatre THR BC 3140x
Women in Theatre
 —E. Swain

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-year Seminar from the Women in Literature and Culture cluster. See page 142.

RECOMMENDED COURSES OF RELATED INTEREST

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

Anthropology ANT V 3115x
Peasants, Class and Conflicts in Central America
 —E. Crandon

Education EDU BC 2032x
Contemporary Issues in Education
 —S. Sacks

English ENG BC 3140y
The Body in Modern Literature and Thought
 —M. Jaanus. *Not offered in 1993-94.*

History HIS BC 3066y
America in the Gilded Age
 —M. Carnes. *Not offered in 1993-94.*

History HIS BC 3450y
History of Childhood in America
 —M. Carnes. *Not offered in 1993-94.*

History HIS BC 3479x
America in the 1960s
 —D. Farber. *Not offered in 1993-94.*

Political Science POS BC 3007x
Modern Political Movements
 —L. Calman

Political Science POS BC 3013x, 3014y
Political Theory
 —D. Dalton

WOMEN'S STUDIES

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Women's Studies H 3450y **Contemporary French Thought and Feminist Theory (Seminar)**

Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference.—M. Marini
4 points.

Women's Studies H 3550y **Women and Society in France: History of Women from 16th to 20th Century**

The public and private space of women in France: as a function of the cultural and social gender arrangements, with special attention to the end of the 18th century and the revolutionary period.

— N. Pellegrin

3 points.

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Rosa Alicia Ramos, Ph.D., Assistant Dean (on leave, 1993-1994)

Esther Rowland, M. Phil, M.A., Associate Dean

James Runsdorf, Ph.D., Assistant Dean

Aaron Schneider, Ph.D., Associate Dean of Studies and Senior Class Dean

Marjorie Croes Silverman, Ph.D., Associate Dean, Junior Class Dean, Director of Transfer Services

Vivian Taylor, M.Ed., Sophomore Class Dean and Associate Dean for Student Affairs

Catherine S. Webster, M.A., First-Year Class Dean

Office for Disability Services

Susan E. Quinby, M.A., Director
Jo Ellen Gordon, M.A., Learning Disabilities Specialist
Rose L. Gladden, Secretary

Office of Financial Aid

SuzanneClair Guard, B.A., Director
Susan V. Lee, B.A., M.A., Senior Associate Director
Afsie Djabbari-Aslani, M.P.A., Associate Director
Beverly M. Christian, B.S., Information Officer

Student Health Services

Mary E. (Polly) Wheat, M.D., Director of Student Health Services
Barbara Liskin, M.D. Clinical Director of Mental Health Services
Giselle Harrington, M.Ed., Program Coordinator, Health Promotion
Theresa O'Rourke, R.N., Head Nurse
Phyllis Kaplan, Administrator

Office of Associate Dean for Student Affairs

Vivian A. Taylor, M.Ed., Associate Dean for Student Affairs
Francesca M. Cuevas-Cruz, B.A., HEOP Director
Kellie Newman, B.A., HEOP Assistant Director
Santa Arocho, B.A., Counselor, HEOP
Alexandra Nestoras, B.A., Liberty Program Coordinator
Saul Davis, M.S., STEP Director
Rhonda Harrison, B.A., STEP/McNair Administrative Assistant and Events Coordinator

Wollman Library

Christina Bickford, M.S., Ed.M., Media Services Librarian
Karen Dobrusky, M.S., M.P.H., Reference Librarian
Cynthia Johnson, M.A., M.S., Reference Librarian
Tatiana Keis, M.S., C.A.L., Reserves and Circulation Librarian
Jane Lowenthal, M.Ed., M.L.S., Archivist
Kenneth Soehner, M.S., Technical Services Librarian
Natalia Sonevitsky, M.S., C.A.L., Reference Librarian
Mary Ellen Tucker, M.S., C.I.M., Systems Librarian

Office of Management Information Systems

Lewis Wyman, Director
Tobyn Sharp, Network/Systems Administrator
Joesph M. Hemway, Database Administrator
William P. Bertsch, Systems/Database User Support Analyst
Michael Roberson, Operations Manager
Jayasree Krishnamurthy, Coordinator of Academic Computer Labs
Cheng-Dar Yang, User Consultant

Office Services

Myrtle Tate, B.S., Associate Director of Mail Services
Alan Anderson, B.A., Associate Director of Reprographics

ADMINISTRATION

Personnel Office

Rhondda Tewes, B.S., Director

Charles Gadsden, B.A., Associate Director

Robin Sampson-Worth, B.S., Personnel Officer

Office of Public Affairs

Beverly Solocheck, B.S., Director

Marianne Kelley, B.F.A., Graphic Designer

Office of Purchases and Stores

Paula Newman, Director

Office of the Registrar

Constance Brown, Ph.D., Registrar

Marybeth Maher, Assistant Registrar

Patsy To, Assistant Registrar

Office of Student Life and Housing

Ione G.W. Gatch, Dean of Student Life

Sandra J. Johnson, Associate Dean of Student Life

Gloria Anderson, Administrative Assistant to the Dean

Marissa Guijarro, Housing Manager

Jill H. Cochran, Associate Director of Residential Life, Plimpton Hall

Joy E. Colmena, Associate Director of Residential Life, Elliott Hall

Daphne A. Williams, First Year Focus, Sulzberger and Reid Halls

Cheryl A. Sistek, Associate Resident Director, 600, 616, 620 West 116th Street

T.B.A., Associate Resident Director, Brooks, Hewitt & Sulzberger Tower

Lillian Caddle, Area Manager, 600, 616, 620 West 116th Street

Paulette Suber, Area Manager, Brooks, Hewitt, Reid & Sulzberger Tower

Office of Safety and Security

Otto Cilenti, B.S., Director

Betty Weems, Associate Director

Karla Buchting, Evening Supervisor

James Kelly, Evening Supervisor

Office of Summer Programs

Jean McCurry, M.A., Director

Andrew Kane, B.A., Associate Director

THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE

The Associate Alumnae of Barnard College comprises over 25,000 members from all 50 states and more than 63 countries. Members include all who have completed a year or more of study at Barnard and have left in good standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive the Barnard alumnae magazine, Barnard Reporter newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serves the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets biennially on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 80 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 21-member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officers of the Associate Alumnae

Carol Murray Lane, President

Christine Giordano, Vice President

Elaine Schlozman Chapnick, Vice President

Directors

Elizabeth Atkins

Jolyne Caruso-FitzGerald

Stephani Cook

Myrna Fishman Fawcett

Paula Franzese

Jodie-Beth Galos

Janis Hardiman-Robinson

Ilene P. Karpf

Judith Lefkowitz Marcus

Emily Gaylord Martinez

Kathie Plourde

Pola Auerbach Rosen

Adrienne Aaron Rulnick

Darlene Yee

Arleen Hurwitz Zuckerman

Alumnae Trustees

Carol Herman Cohen

Sheila C. Gordon

Carol Murray Lane

Diana Touliatou Vagelos

SCHOLARSHIP FUNDS

UNRESTRICTED

Mary Allen Fund (1981) <i>In memory of Ruth Marley.</i>	Class of 1925 Fund (1975)
Neils J. Allison Fund (1964) <i>From the estate of Beatrice C. Allison.</i>	Class of 1926 Fund (1981)
Arthur G. Altschul Fund (1984)	Class of 1930 Fund (1975)
Helen Goodhart Altschul Fund (1990) <i>In memory of Helen Goodhart Altschul '07.</i>	Class of 1931 Memorial Fund (1981)
Alumnae Fund (1922)	Class of 1933 Fund (1973)
Anna E. Barnard Fund (1899)	Class of 1935 Fund (1975)
Joan H. Baum Fund (1977)	Class of 1936 Fund (1971)
Frances E. Belcher Fund (1963)	Class of 1938 Fund (1989)
Ruth Marshall Billikopf Fund (1950)	Class of 1939 Fund (1990)
Varian White Blumberg Fund (1952)	Class of 1940 Memorial Fund (1991)
Rose and Solomon Blumenthal Fund (1987)	Class of 1943 Fund (1989)
Elizabeth M. Bogardus Fund (1976)	Class of 1947 Memorial Fund (1982)
Charles E. Bogert and Anna Shippen Young Bogert Memorial Fund (1913)	Class of 1948 Fund (1989)
Eva-Lena Miller Booth Fund (1932)	Class of 1953 Fund (1973)
Dorothy S. Boyle Fund (1978)	Class of 1954 Fund (1955)
Josephine Brand Fund (1970)	Class of 1959 Fund (1974) <i>In memory of Jacqueline Zelniker Radin.</i>
Brearley School Fund (1889)	Class of 1963 Fund (1983)
Martha Ornstein Brenner Fund (1915)	Class of 1964 Fund (1992)
The Anny Birnbaum Brieger '29 and Edith Birnbaum Oblatt '29 Fund (1992)	Class of 1974 Fund (1991)
Arthur Brooks Fund (1897)	Class of 1981 Fund (1982)
Margaret Bullova Fund (1979)	Martine Cobanks Fund (1973)
Elsa B. Bunn Fund (1980)	Beatrice Rosenthal Coleman Scholarship Fund (1991)
Elizabeth Hobe Burnell Fund (1971)	Rosalie Colie Fund (1993)
Suzanne Payton Campbell '20 Fund (1992)	College Bowl Fund (1968)
Chicago Campaign Fund (1992)	Barbara Myers Cross Fund (1986)
Fanny Steinschneider Clark Fund (1978)	Yvonne Moen Cumerford Fund (1972)
Jennie B. Clarkson Fund (1898)	Caryl M. Curtis Fund (1980)
Class of 1918 Fund (1975)	Vera B. David Scholarships (1962) <i>In memory of her late husband, John David.</i>
Class of 1921 Fund (1931)	Ethel Dawbarn Fund (1987)
	Blanche Heyman Doernberg Fund (1991)

Ada M. Donelle Fund (1948)	Harkness Fund (1939)
L. Adele Dorsett Fund (1971)	Jane Harnett Fund (1978)
Helen Geer Downs Fund (1974)	Helen May Smith Helmle Fund (1973)
Drake Scholarships and Fellowships (1992)	Margaret Holland Fund (1975)
Amelia Cary Duncan Fund (1976)	Rita Hilborn Hopf Memorial Fund (1966)
Marie G. Eckhardt Fund (1990)	Charles Evans Hughes Fund (1952)
May Parker Eggleston Fund (1977)	Harriet Kaye Inselbuch '62 Fund (1992)
Betty Eisenstadt Fund (1982) <i>In memory of Sarah and Israel Gillman and of Betty Eisenstadt.</i>	Eleanor Levison Israel Fund (1976)
Elizabeth Kramer Emmons Fund (1986)	Lucie Burgi Johnson Fund (1979)
Sarah Engel Fund (1973)	Lily Murray Jones Fund (1950)
Laura Teller Ericsson Fund (1976)	Mildred K. Kammerer Fund (1973)
Margaret Jane Fischer Fund (1968)	Peggy King Scholarship Fund (1986)
Fiske Fund (1895)	Mirra Komarovsky Fund (1975)
Martha T. Fiske Fund (1911)	Lucile Wolf Koshland Fund (1980)
Edyth Fredericks Fund (1974)	Elsie M. Kupfer Fund (1975)
Clara Lillian Froelich Fund (1979)	Margaret Irish Lamont Fund (1978)
Doris P. Gallert Fund (1970)	Augusta Larned Fund (1924)
Galway Fund (1912)	Marjorie Hermann Lawrence Fund (1965/67)
Helen Jenkins Geer Fund (1940)	Yves LeMay Fund (1982)
Cecile Meister Gilmore and Benjamin Gilmore Fund (1986)	Harriett Mooney Levy Fund (1965)
Anita Hyman Glick Fund (1968)	Joan Sperling Lewinson Fund (1955)
Irma Alexander Goldfrank Fund (1919)	Judith Lewittes Fund (1957)
Sarah S. and Louis A. Goldman Fund (1992)	Anne Elizabeth Lincoln Fund (1963)
Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983)	Amy Loveman Fund (1956) <i>See Prizes, page #.</i>
Elsa Gottlieb Fund (1982)	Louise Grace Luby and James Luby Fund (1947)
Graham School Fund (1907)	Barbara Scoville Maarschalk Fund (1977)
Blanche Kazon Graubard Fund (1981)	Frances E. and Harry W. Martin Fund (1986)
Ethel C. Gray Fund (1973)	Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970)
Louise H. Gregory Fund (1955)	Cecile Lehman Mayer Fund (1962)
Hetta Stapff Halloran Fund (1977)	Leo Mayer Fund (1972)
	Adele Duncan McKeown Fund (1973)
	Eloise F. McLennan Fund (1987)

SCHOLARSHIP FUNDS

- Memorial Fund (1954)
- Dorothy E. Miner Fund (1977)
- Gladys Bateman Mitchell Fund (1980)
- William Moir Fund (1912)
- Gulli Lindh Muller Fund (1972)
- Caroline Church Murray Fund (1918)
- Annette Florence Nathan Fund (1947)
- Dora R. Nevins Fund (1969)
- Ann Whitney Olin Fund (1982)
- Lucretia Perry Osborn Fund (1940)
- Dorothy Brockway Osborne Fund (1976)
- Elizabeth Palmer Fund (1972)
- Jean T. Palmer Fund (1969)
- Josephine Bay Paul Fund (1978)
- Carl and Lily Pforzheimer Foundation Fund (1993)
- Lucy Powell Fund (1971)
- M. Gladys Quinby Fund (1961)
- Jacqueline Zelniker Radin Fund (1975)
- Eleanor Kaiser Reinheimer Fund (1976)
- Eva Rich Fund (1968)
- Peter C. Ritchie, Jr. Fund (1937)
- Gayle F. Robinson '75 Fund (1993)
- Margaret Miller Rogers Fund (1976)
- Caterina Ronzoni Fund (1986)
- Edith Lowenstein Rossbach Memorial Fund (1959)
- Carrie W. and Corine A. Rowe Fund (1979)
- Helena Rubinstein Foundation Fund (1992)
- Edna Heller Sachs Fund (1955)
- May and Edgar Salinger Fund (1971)
In memory of Isaac and Eugenie Herrmann.
- Eleanor Butler Sanders Fund (1922)
- Anna M. Sandham Fund (1922)
- Terry Rose Saunders '64 Fund (1992)
- Katherine D. Schlayer Fund (1975)
- Schmitt-Kanefent Fund (1931)
- Scholarship Fund (1901)
- Katherine Flint Shadek Fund (1961)
- Dorothy Nolan Sherman Fund (1983)
- Marion Berenson Shinn '45 and Richard R. Shinn Fund (1992)
- Anne Victoria and Elizabeth Jane Shutkin Fund (1983)
- Doris Silbert Fund (1987)
- Max Sloman and Jane Stanley Fund (1971)
- Emily James Smith Fund (1899)
- Frances M. Smith Fund (1974)
- Fred Curtis Smith Memorial Fund (1955)
- George W. Smith Fund (1906)
- Sylvia W. Stark Fund (1981)
- C.V. Starr Fund (1983)
- Claire Wander Stein Financial Aid Fund (1981)
- Edna Phillips Stern Fund (1952)
- Eleanor Holden Stoddard Fund (1977)
- Isabel Greenbaum Stone Fund (1957)
- Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969)
- Solon E. Summerfield Foundation Fund (1960)
- Thrift Shop Scholarships (1938)
From the Barnard Scholarship Unit of Everybody's Thrift Shop.
- Miriam Tobias Fund (1980)
- Veltin School Fund (1905)
- Florence Meyer Waldo Fund (1980)
- Alma F. Wallach Fund (1951)
- Dorothy Calman Wallerstein Fund (1976)
- Ella Weed Fund (1895)
- Hymen and Helen Werner Fund (1964)
- Fern Yates Memorial Fund (1980)

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981)

For a student or students who have overcome serious physical difficulties.

Mary Ann Adams & Lily Frances Adams Fund (1991)

Preferably for a student majoring in history or another social science.

Mary Gertrude Edson Aldrich Fund (1916)

To a senior who has shown high moral qualities.

Norma Ketay Asnes '57 Fund (1993)

Preferably for African-American students.

Axe-Houghton Fund (1977)

For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966)

For children of New York City school teachers preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944)

For a student from Brooklyn.

Barnard College Club of Greater San Francisco Fund (1986)

For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969)

For students from the Houston area.

Barnard College Club of New York Fund (1952)

For a student from outside New York City.

Barnard-in-Westchester Fund (1962)

Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916)

Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936)

By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984)

In memory of Annette Kar Baxter, '47, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950)

For one or more Barnard students of foreign-born parentage.

Edward L. Bernays Continuum Prize and Scholarship Fund (1992)

For the winner of the Edward L. Bernays Prize (see page 281), or, if that student is not in need of financial aid, to the most outstanding writer among English majors.

June Rossbach Bingham Fund (1976)

For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937)

Preferably for a student in political science.

Niña Thomas Bradbury '42 Fund (1992)

Preferably for a student interested in teaching.

Thornton F. Bradshaw Fund (1986)

For transfer students.

Alice Marie-Louise Brett Fund (1930)

For a senior specializing in French.

William Tenney Brewster and Anna Richards Brewster Fund (1961)

To be awarded in amounts not less than \$1,000 preferably.

Anne Brown Endowment Fund (1939)

For students from New York City.

Burbank Fund (1992)

For one or more worthy students pursuing the study of history, literature, or music of the United States, or any combination thereof.

Ruth L. Byram '24 Fund (1991)

Preferably for students interested in teaching or majoring in math.

Carpentier Residence Fund (1919)

For students who are not residents of New York City or its vicinity.

Therese Cassel Fund (1973)

For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Lois and James Champy Fund (1992)

Preferably for African-American students who demonstrate special need as well as ability.

Eliza Taylor Chisholm Memorial Fund (1901)

Preference to nominees of the Alumnae Association of Miss Chisholm's School.

SCHOLARSHIP FUNDS

- C.I.T. Financial Corporation Fund (1979)
In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.
- Class of 1919 Decennial Fund (1929)
For a resident student.
- Class of 1926 Emergency Student Aid Fund (1976)
For emergency financial aid.
- Class of 1949 Fund (1974)
For an incoming first-year student.
- Mrs. Henry Clarke Coe Fund (1910)
By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.
- Charles A. Dana Fund (1982)
For students designated Dana Scholars, as specified in the guiding principles for the program.
- Babette Deutsch Fund (1978)
For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.
- Marie Ward Doty Fund (1981)
Preferably to daughters of parents in law enforcement or related fields.
- Augusta Salik Dublin Fund (1960)
For a student in a field of social welfare.
- Elizabeth M. Edersheim '85 Memorial Fund (1992)
For juniors majoring in mathematics or English, preferably mathematics, to be renewed for an additional year if academic standards are maintained.
- Educational and Cultural Trust Fund of the Electrical Industry (1951)
For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.
- May Parker Eggleston Fund (1972)
For a science student, preferably one planning to attend medical school.
- Christine H. Eide Memorial Fund (1968)
For juniors majoring in anthropology or English.
- Eleanor Thomas Elliott Fund (1973)
For winners of the Eleanor T. Elliott Prize (see page 279) and/or for other deserving students.
- Gladys Renshaw Esterbrook Fund (1958)
Preferably for English or French majors.
- Marion Pratt Fouquet Fund (1961)
Preferably for older students.
- German Fund (1950)
For a German major. See also Prizes, page 282.
- Virginia C. Gildersleeve Fund (1968)
For a major in the humanities, preferably English.
- Virginia C. Gildersleeve International Fund (1937)
For a foreign student.
- Elizabeth Hughes Gossett Scholars (1981)
For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.
- Julius Held Fund (1970)
For students majoring in Art History
- Janet Williams Helman '56 Fund (1993)
Preferably for minority students from Chicago, Illinois.
- Dominique Henrey Memorial Fund (1990)
For a first-year student who has an interest in creative writing.
- Emma Hertzog Fund (1904)
For a graduate of Yonkers High School.
- Alena Wels Hirschorn '58 Fund (1986)
For the winner of the Alena Wels Hirschorn essay prize, or to the most outstanding economics major.
- Marion Alice Hoey Fund (1944)
Preferably for a student in Greek and Latin.
- Hannah and Henry Hofheimer Fund (1975)
For a freshman.
- Holland Dames Fund (1915)
For a descendant of early Dutch settlers.
- Lillia Babbitt Hyde Fund (1953)
For premedical students.
- Charlotte Louise Jackson Fund (1928)
For a graduate of Yonkers High School.
- Mary E. Larkin Joline Fund (1927)
For a student specializing in music.
- Werner Josten Fund (1955)
Preferably for a student in music.
- Jessie Kaufmann Fund (1902)
For a student who has no relative able to offer financial assistance.

Kimball Fund (1938)

For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911)

For a sophomore of exceptionally high standing.

John A. Kouwenhoven Fund (1991)

Preferably for an English major.

Henry C. Kuever and Frederick W.A. Fuller Fund (1981)

Preferably for a student majoring in music, or in Greek or mathematics.

Wei-Ven Yao Kung Fund (1992)

Preferably for students of Asian background.

Dr. Ann G. Kuttner Fund (1969)

Preferably to premedical students.

Eugene M. Lang Fund (1988)

Preferably for minority students.

Hortense Owen Lazar '26 Fund (1991)

Preferably for students who have demonstrated both exceptional promise in the field of creative writing and a practical concern for others.

Ethel Stone LeFrak Prize and Scholarship (1986)

To a student for excellence in a field of the arts, the balance as a grant to the prize recipient or a meritorious alternate.

Bernard Liberman Fund (1979)

For premedical students.

Carolina Marcial-Dorado Fund (1953)

For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad or to a student who is majoring in Spanish.

Raphael Marino Fund (1977)

For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955)

Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961)

For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906)

For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986)

Preferably for students majoring in writing, music, dance or drama.

Alice Miller Memorial Scholarship Fund (1989)

Preference to pre-medical students.

Ferry Starr Morgan Fund (1959)

For a student majoring in music or philosophy.

Lawrence Morris Fund (1968)

Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983)

For seniors majoring in sociology.

Lucy Moses Fund (1975)

For a premedical student. See Prizes, page 280.

Ann Newman Fund (1986)

For study abroad.

The New York Times Fund (1990)

For minority students.

Julia Fisher Papper Fund (1974)

For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913)

For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934)

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899)

Three are restricted to students from the City of New York, eight are for resident students.

Basil Rauch Memorial Fund (1992)

For students majoring in history or in political science with an interest in foreign affairs..

Gladys A. Reichard Anthropology Scholarship Fund (1992)

For students majoring in anthropology or, if there are no such eligible students, for students majoring in other social sciences.

Marie Reimer Fund (1953)

See Prizes, page 280.

SCHOLARSHIP FUNDS

Amelia Agostini de del Rio Fund (1955)
For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975)
For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967)
For a premedical student.

Doris Schloss Rosenthal Fund (1981)
For students majoring in courses in the Arts.

Joan Rosof Fund (1964)
For students from the State of New York.

Felix St. George Scholarship (1955)
For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965)
Preferably for premedical students.

Lillian Schoedler Fund (1967)
For students who show promise of civic leadership.

Margarete Schwabe Fund (1974)
For premedical students with outstanding ability and idealism.

Ruth Gould Scoppa '39 Fund (1985)
Preferably for a student majoring in English.

Henry Sharp Memorial Fund (1992)
For a student who has or will take one basic course in geology, geography, or environmental science.

Roslyn S. Silver Scholarship Program (1982)
For junior and senior students preparing for careers in medical research.

Clarice Ann Smith Fund (1973)
For students of literature and composition.

Marion Wesley Smith Fund (1978)
For students majoring in Anthropology.

Hilda Staber Fund (1967)
For foreign students.

Estella Raphael Steiner Fund (1972)
For a senior in Biological Sciences who plans to engage in research in that field.

Beatrice L. Stern Memorial Fund (1977)
For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

Marion Levi Stern Fund (1977)
Preferably for students in the social sciences.

Simon and Elaine Strauss Fund (1981)
For disabled students.

Emma A. Tillotson Fund (1910)
For a sophomore of exceptionally high standing.

Clara Bittenwieser Unger Memorial Fund (1938)
For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Helen Elizabeth Vosburgh Fund (1934)
Preference to a self-supporting student.

Mary Voyse Fund (1989).
For a student from Yonkers.

Walter A. Wagener Memorial Fund (1984)
For students majoring in a field of the arts.

Gertie Emily Gorman Webb Fund (1953)
For a nominee of the Department of History.

May Hessberg Weis Fund (1981)
For students in environmental ethics and conservation.

Esther Lensh Weisman Fund (1979)
Preferably for a student majoring in English.

Marian Churchill White Fund (1975)
For the winner of the Marian Churchill White Prize (see page 280 or an alternate with similar qualifications).

Allison Wier Fund (1977)
For students who are residents of Westchester County.

Elsa P. Wunderlich Fund (1978)
For a German exchange student.

Richard P. Youtz Fund (1987)
For students in the Resumed Education Program.

Alma Gluck Zimbalist Fund (1940)
For students in political science.

Gertrude Bunger Zufall Fund (1987)
For a senior pre-medical student. See Prizes, page 295.

HONORS

The following awards, administered according to the provisions of their respective donors, were established to honor those who have shown exceptional distinction in their studies.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963)

For a graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971)

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930)

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984)

By Doctor Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976)

For graduating seniors who show promise of distinction in such field of graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

Grace Potter Rice Fellowship (1935)

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Scholarship (1936)

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928)

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

GENERAL

Estelle M. Allison Prize (1937)

For excellence in literature.

Mary E. Allison Prize (1937)

For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984)

For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931)

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973)

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College.

Katherine Reeve Girard Prize (1964)

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978)

For a graduating senior who will pursue a career in journalism.

Alena Wels Hirschorn Prize (1986)

For a senior majoring in economics, with preference for a student who has a strong interest in English literature and/or in pursuing a career in journalism.

Lucyle Hook Travel Grants (1987)

To promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986)

To a student with a disability for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize (1986)

For excellence in a field of the arts.

Harry Salzman Internship Fund (1982)

An internship in Washington, D.C.

HONORS

BY ACADEMIC AREA

Schwimmer Prize (1986)

For an outstanding graduating senior in the humanities.

Bernice G. Segal Summer Research Internships (1986)

One or more internships for supervised research in the sciences during the summer.

Marian Churchill White Prize (1975)

For an outstanding sophomore who has participated actively in student affairs.

PREMEDICAL

Helen R. Downes Prize (1964)

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973)

For premedical students majoring in chemistry.

Lucy Moses Award (1975)

For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987)

For a premedical student entering her senior year.

ART HISTORY

Nancy Hoffman Prize (1983)

For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969)

For promising seniors majoring in art history.

ASIAN-MIDDLE EASTERN CULTURES

Taraknath Das Foundation Prize in Asian and Middle Eastern Studies (Columbia University)

To a student of Barnard College, Columbia College, or the School of General Studies, for excellence in Asian and Middle Eastern Studies.

BIOLOGICAL SCIENCES

Maura Shannon Barrett Internships (1993).

In memory of Maura Shannon Barrett '83. For students well based in the humanities who will apply their scientific knowledge to biology and/or health problems.

Edna Henry Bennett Memorial Grants (1927)

For work at a biological laboratory offering summer courses.

Herbert Maule Richards Grants (1933)

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979)

For biological study or research.

Hermann Botanical Prize (1892)

For an undergraduate student proficient in biology.

Spiera Family Prize (1986)

For promise of excellence by a student majoring in biological sciences.

Constance Von Wahl Prize (1915)

For advanced work in biology.

CHEMISTRY

American Chemical Society's Division of Analytical Chemistry Award

For outstanding work in analytical chemistry.

American Chemical Society's Division of Polymer Chemistry Award

For outstanding work in organic chemistry.

American Institute of Chemists, New York Chapter Prize

For an outstanding student of chemistry.

CRC Press First-Year Chemistry Achievement Award

For outstanding achievement in first-year chemistry.

Marie Reimer Scholarship Fund Prize (1953)

Awarded at the end of the junior year to an outstanding major in chemistry.

ECONOMICS

American Statistical Association, New York Area Chapter Prize (1960)

For an outstanding student in statistics.

Alena Wels Hirschorn Prize (1986)

To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize (1981)

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949)

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekman Prize (1960)

For the first-year student who is doing the best work in introductory economics.

EDUCATION

Stephanie Kossoff Prize (1972)

For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

ENGLISH

Edward L. Bernays Continuum Prize (1992)

For the Barnard student judged to have written the best short piece, fiction or non-fiction.

Saint Agatha Muriel Bowden Memorial Prize (1971)

For superior proficiency in the study of Chaucer and medieval literature.

W. Cabell Greet Prize (1974)

For excellence in English.

William Haller Prize (1987)

For excellence in the study of English literature.

Amy Loveman Memorial Prize (1956)

For the best original poem by an undergraduate.

Lenore Marshall Barnard Prizes (1975)

For both poetry and prose of distinction.

Sidney Miner Poetry Prize (1962)

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Peter S. Prescott Prize for Prose Writing (1992)

For a work of prose fiction which gives the greatest evidence of creative imagination and sustained ability.

Helen Prince Memorial Prize (1921)

For excellence in dramatic composition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968)

For excellence in Anglo-Saxon language and literature.

Academy of American Poets Prize (Columbia University)

For the best poem or group of poems by a student.

Bunner Medal (Columbia University)

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize (1984)

For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986)

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University)

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University)

To an undergraduate student of the University for the best original poem.

ENVIRONMENTAL SCIENCE

Lillian Berle Dare Prize (1974)

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970)

For an outstanding student majoring in environmental science.

FRENCH

Helen Marie Carlson French Prize (1965)

For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972)

For the best composition in the French course, *Masterpieces of Literature, from the Middle Ages to the Twentieth Century*.

Frederic G. Hoffherr French Prize (1961)

To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977)

To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French*.

Eleanor Keller Prizes (1968)

For juniors in French literature and seniors in French culture.

HONORS

Rosemary Thomas Prize in French (1966)

For evidence of a special sensitivity and awareness in the study of French poetic literature.

GERMAN

Dean Prize in German (1952)

For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund Prize (1950)

Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988)

Awarded to a junior or senior major for excellence in oral German.

GREEK AND LATIN

John Day Memorial Prize (1986)

For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University)

For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University)

For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917)

For the undergraduate student most proficient in Latin.

HISTORY

Eugene H. Byrne History Prize (1960)

For superior work by a history major.

Early American History Award (1993).

For excellence in early American history.

Ellen Davis Goldwater History Prize (1982)

For superior work by a history major.

ITALIAN

Bettina Buonocore Salvo Prize (1966)

For a student of Italian.

Speranza Italian Prize (1911)

For excellence in Italian.

MATHEMATICS

Margaret Kenney Jensen Prize (1973)

To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892)

To a senior for excellence in mathematics.

MUSIC

Robert Emmett Dolan Prize (Columbia University)

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986)

For a graduating senior whose creative writing in music shows promise of distinction.

PHILOSOPHY

William Pepperell Montague Prize (1949)

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986)

For promise of excellence by a student majoring in philosophy.

PHYSICAL EDUCATION

Margaret Holland Bowl (1974)

For excellence in leadership and participation in recreation and athletics.

Marion R. Philips Scholar-Athlete Award (1981)

To the senior female winner of a varsity letter who has achieved the highest cumulative academic average and who has participated on a Columbia University team for at least two years.

Seven Sisters Senior Scholar-Athlete Award (1988)

For scholarly achievement and participation in Seven Sisters Competition.

Tina Steck Award (1980)

For the most outstanding member of the Swimming and Diving Team.

PHYSICS

Henry A. Boorse Prize (1974)

To a graduating Barnard senior, preferably a major in the department, whose record in physics shows promise of distinction in a scientific career.

POLITICAL SCIENCE

Phoebe Morrison Memorial Prize (1969)

For a political science major planning to attend law school.

James Gordon Bennett Prize (Columbia University)

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

Caroline Phelps Stokes Prize (Columbia University)

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

PSYCHOLOGY

American Statistical Association, New York Area Chapter Prize (1960)

See Economics listing.

Ida Markewich Lawrence Prize (1982)

For the best paper in psychology, preferably child psychology, by a major.

RELIGION

Samuel Dornfield Prize (1979)

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize (1916)

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

RUSSIAN

Alice Levin Sokolik Prize in Russian (1976)

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

SPANISH

John Bornemann Prize in Spanish (1976)

For superior performance in the first- or second-year language courses.

Eugene Raskin Prize

For the best essay in fourth-term Spanish.

Spanish Prize (1959)

For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize (Seven Colleges)

For the best original essay written in Spanish by a senior whose native language is not Spanish.

THEATRE

Kenneth Janes Prize in Theatre (1987)

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

URBAN AFFAIRS

Suzanne Farkas Urban Affairs Prize (1972)

For the best essay in Urban Affairs.

WOMEN'S STUDIES

Bessie Ehrlich Memorial Prize (1980)

For an oral history project concerning a female relative of a preceding generation, in conjunction with the Women's Studies Department.

Jane S. Gould Prize (1982)

For an outstanding senior essay by a Women's Studies major.

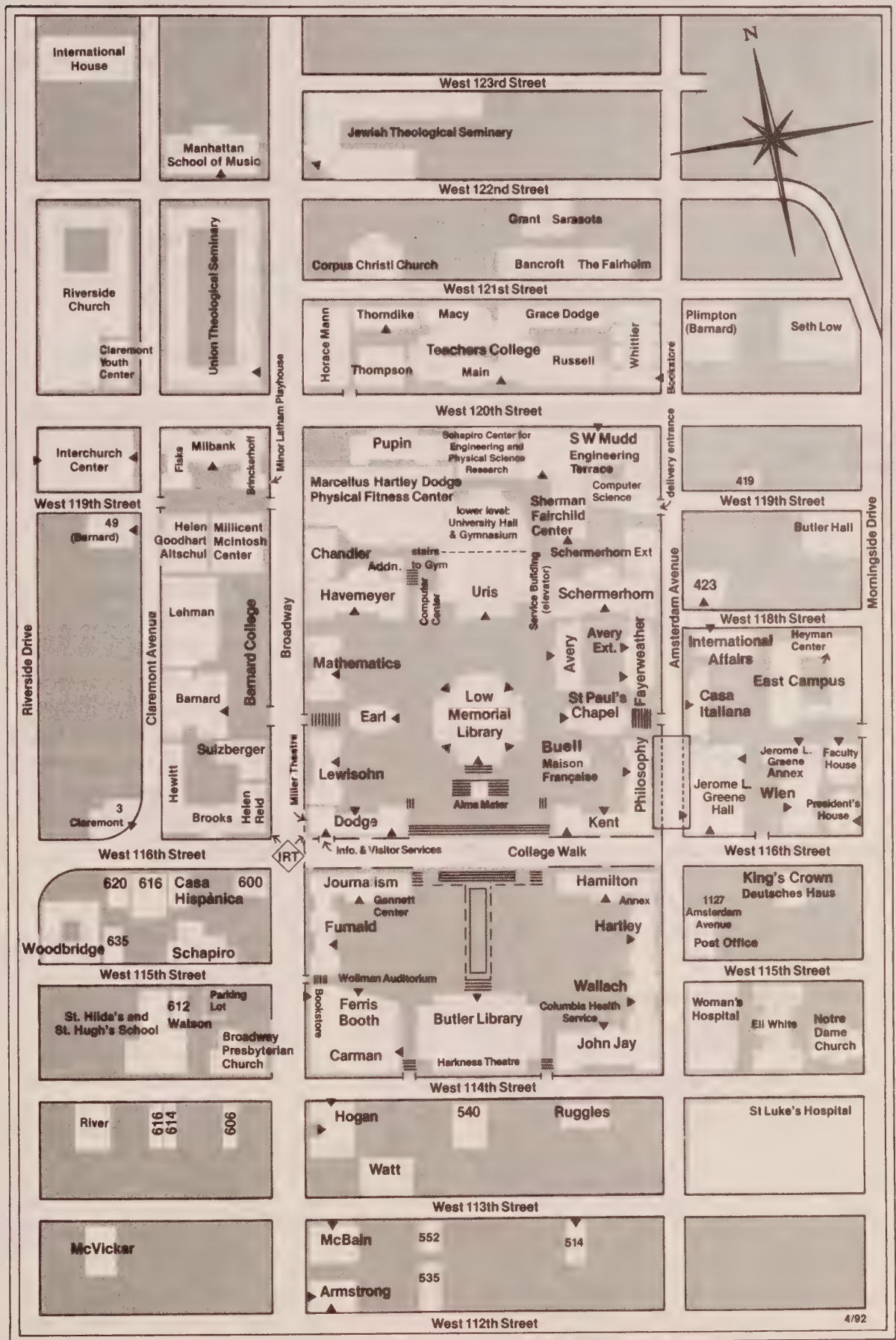
STATISTICS

	1889	1899	1909	1919	1929	1934	1944	1954	1964	1974	1984	1989	1991	1992
	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	1890	1900	1910	1920	1930	1935	1945	1955	1965	1975	1985	1990	1992	1993
Undergraduates, Regular														
Seniors	—	40	62	87	227	181	208	245	355	572	559	538	577	570
Juniors	—	40	122	190	237	220	314	340	414	554	563	527	494	531
Sophomores	—	37	109	193	247	226	314	317	391	488	512	552	553	548
First-year Students	14	54	188	224	311	267	324	304	415	437	531	487	495	516
Unclassified Students	—	—	—	—	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2104	2119	2165
Special Students														
Matriculated	—	21	24	39	—	—	—	—	—	—	—	—	—	—
Nonmatriculated	—	—	30	22	28	29	21	20	19	33	22	18	15	16
Departmental (1889-1896)	22	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915)	—	41	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	18	15	16
Graduate Students														
(1890-1900)	—	82	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2122	2134	2181
Degrees Conferred														
A.B.	—	39	88	139	247	221	270	258	367	497	612	541	567	529
B.S. (1909-1918)	—	18	2	5	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900)	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

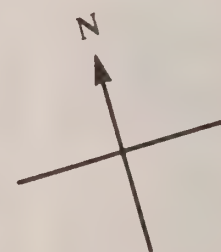
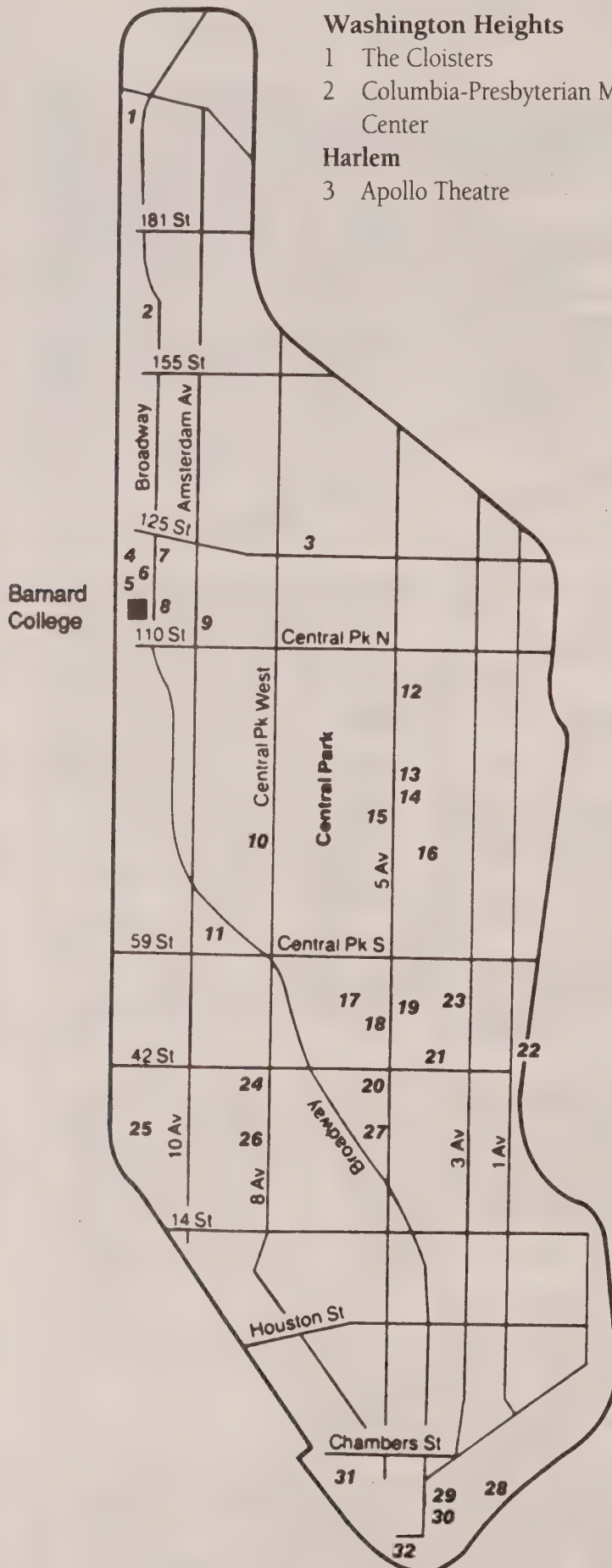
Total Bachelor's Degrees conferred 1893-1992: A.B., 27,430, B.S., 77
These figures represent registration in the Autumn Term.

BARNARD COLLEGE

COLUMBIA UNIVERSITY THE MORNINGSID CAMPUS & ENVIRONS



NEW YORK CITY



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